This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

3-VDL
N.Y.C.
AQUEDUCT

MINUTES

OF THE

AQUEDUCT COMMISSIONERS.

1892.

VOLUME 8.

NEW YORK:
MARTIN B. BROWN, PRINTER AND STATIONER,
NOS. 49 AND 51 PARK PLACE.
1893.

3 VI

THE NEW YORK
PUBLIC LIBRARY
324905
ASTOR, LENOX AND
TILDEN FOUNDATIONS.
1906

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, January 6, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7570 to 7577, inclusive, amounting to $474.11; also of Vouchers Nos. 7578 and 7579, being estimates for work done by contractors, amounting to $28,443.83; also of Vouchers Nos. 7580 to 7584, inclusive, amounting to $1,047.98.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following preamble and resolution:

Whereas, In the opinion of the Aqueduct Commissioners, the further sum of five hundred thousand dollars will be required to defray the necessary and lawful expenditures of said Commissioners; now, therefore, be it

Resolved, That the Comptroller of the City of New York be and he is hereby requested to raise the sum of five hundred thousand dollars upon bonds of the City of New York, in conformity with the requirements of section 32, chapter 490, Laws of 1883, of the State of New York, for the uses and purposes of the Aqueduct Commissioners, as set forth in said chapter and section of said law.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due School District No. 6, Town of New Castle, Westchester County, New York, amounting to three dollars and sixty-five cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the Aqueduct Commissioners hereby assent and consent to the substitution of John Claffy in place of Thornton N. Motley as bondsman for Sullivan, Rider & Dougherty on their contract for building a dam and other work on the East Branch of the Croton river, in Putnam County, New York.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the contract for furnishing iron beams, trolleys, and iron screens for the Sodom and Bog Brook Dams; also for a cast-iron cover to be delivered at Shaft 21 of the New Aqueduct, is hereby awarded to the Coldwell Wilcox Co., at their bid of seven hundred and four dollars, it being the lowest bid received for doing said work and less than the estimate of the Chief Engineer.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled James S. Shells vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of two hundred and twenty-nine dollars and sixty cents; therefore,

Resolved, That a voucher be and hereby is ordered drawn in favor of James S. Shells for the sum of two hundred and twenty-nine dollars and sixty cents, being amount of judgment rendered in favor of said Shells for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Frank P. Lary vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of one hundred and eighty-nine dollars and eighty-six cents; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Frank P. Lary for the sum of one hundred and eighty-nine dollars and eighty-six cents, being amount of judgment rendered in favor of said Lary for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Michael Corkey vs. The Mayor,

Aldermen and Commonalty of the City of New York, for the sum of four hundred and forty-six dollars and thirty-seven cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Michael Corkey for the sum of four hundred and forty six dollars and thirty-seven cents, being amount of judgment rendered in favor of said Corkey for salary due him while employed as an Axeman on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Edward Fitzgerald vs. The Mayor, Aldermen and Commonalty of the City of New York for the sum of one hundred and twenty-four dollars ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Edward Fitzgerald for the sum of one hundred and twenty-four dollars, being amount of judgment rendered in favor of said Fitzgerald for costs in the above-entitled action, and certified to the Comptrolier for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Edward Davy vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of fifty-eight dollars and fifteen cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Edward Davy for the sum of fifty-eight dollars and fifteen cents, being amount of judgment rendered in favor of said Davy for costs in the above-entitled action, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

A communication was received from the Chief Engineer, addressed to the Construction Committee, presenting an application from William H. Baker, contractor for building the head-house and engine-room superstructure at Shaft No. 25, on Section 12 of the New Aqueduct, to consent to the transfer of said contract to John Pierce ; and recommending that said application be granted.

On motion of Commissioner Scott, the communication and the subject-matter thereof was referred to the Construction or Executive Committee for examination and report.

The Commissioners then adjourned.

JOHN C. SHEEHAN, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, January 13, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of vouchers Nos. 7585 to 7591, inclusive, amounting to $19,296.01; also of bills contained in vouchers Nos. 7592 to 7604, inclusive, amounting to $718.99.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following opinion, received from the Counsel to the Corporation:

LAW DEPARTMENT,
OFFICE OF THE COUNSEL TO THE CORPORATION,
NEW YORK, January 11, 1892.

JOHN C. SHEEHAN, Esq., *Secretary of the Aqueduct Commissioners:*

SIR—I have received your letter of July 20, 1891, enclosing a copy of the letter of L. Laflin Kellogg, Esq., representing certain Aqueduct contractors, requesting the payment of certain sums of money which have been retained by the City out of moneys earned by the contractors in the construction of the New Aqueduct.

The sums referred to have been retained from the amount earned, as shown by the Engineer's certificate upon the respective contracts, as damages sustained by the City in consequence of the delay of the contractors in finishing the work.

The several contracts provided a specified limit of time within which the contractors agreed to complete the work done thereunder.

The several contracts further provided that, in case of non-completion within the stipulated time, the contractors should become liable to a charge of $1,000 per day as liquidated damages.

In 1890 the question was raised in relation to the liability of the contractors to such damages, and was considered by Mr. James C. Carter, whose opinion in relation thereto, concurred in by myself, was transmitted to the Aqueduct Commissioners, under date of June 5, 1890.

In that opinion the effect of alterations in the Aqueduct and additional work thereby made necessary was considered, and the conclusion was expressed that in consequence of such alterations the stipulations contained in the contracts for liquidated damages were not enforceable.

Mr. Carter, however, advised that a sum equal to the losses which the City could be shown to have sustained by reason of the failure should be retained, and the sums referred to were so retained as indemnity to the City for the salaries of Commissioners, Engineers, Assistants, office rent and necessary supervision during the period of delay.

The litigation then imminent, in respect to the large claims made by the contractors for work which has not been allowed in the Engineer's certificate, has since been brought before the Court in an action by O'Brien & Clark, contractors for several of the sections of the Aqueduct.

In the action which was tried the City set up as a portion of its defense its claim for such losses and expenses.

Upon the trial, the plaintiffs failed to recover the claims for work not covered by the Engineer's certificate; judgment was directed for the amounts certified, and the counterclaim indicated was not sustained. It is now deemed expedient by Messrs. Root & Fox, by whom the trial was conducted, to acquiesce in this result. I concur in this opinion, and advise you that the moneys so retained should be paid to the contractors.

I remain, yours respectfully,

(Signed) WM. H. CLARK, Counsel to the Corporation.

—and recommended the adoption of the following preambles and resolution:

Whereas, The Aqueduct Commissioners, in accepting the several sections of the New Aqueduct and directing vouchers to be prepared for the final payment for work done and materials furnished under the several contracts for said sections, requested the Comptroller to deduct from the amounts shown on said final estimates certain sums of money to reimburse the City for the actual loss or damage provable upon said sections for superintending said work from the date of the last extension of time for the completion of said work up to the date when said sections, respectively, were accepted; and,

Whereas, The Counsel to the Corporation, under date of January 11, 1892, has advised this Commission that in a trial of an action brought by certain contractors for sums claimed to be due upon one of said sections, judgment was directed for the whole amount included in the final estimate, and the counterclaim of the City was not sustained; and has further advised this Commission that it is deemed expedient by the counsel by whom said trial was conducted, and by the Counsel to the Corporation himself, to acquiesce in such decision; and has further advised that the moneys so retained should be paid to the contractors; therefore,

Resolved, That a copy of the aforesaid opinion of the Counsel to the Corporation be transmitted to the Comptroller, and that he be and hereby is advised to pay to the several contractors for sections of the New Aqueduct which have been accepted and for which final estimates have been certified to him, the several amounts heretofore requested to be retained to reimburse the City for the actual loss or damage provable upon each of said sections, respectively, for superintending the work from the date of the last extension of time for the completion of said work up to the date when said sections were finally accepted, said amounts and sections being as follows;

Section.	When Accepted.	Amount.
2	April 16, 1890.	$26,661 80
3	" 2, "	19,100 80
4	May 28, "	24,213 20
5	Sept. 25, 1889.	15,732 15
6	June 25, 1890.	19,157 58
7	Feb. 26, "	37,800 61
8	Mar. 12, "	23,816 45
9	Sept. 23, 1891.	50,800 00
10 (B)	" 9, "	35,248 51
11 (A)	April 29, "	19,179 18

The same were adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Chief Engineer of this Commission has certified to this Commission in writing that, in his opinion, John Fox has completely performed and carried out the provisions of the agreement made by him with this Commission, as per resolution of the 21st day of May, 1890, for furnishing six 2 by 5 feet sluice gates similar to those furnished for the One Hundred and Thirty-fifth Street Gate-house of the New Croton Aqueduct, including frames, valves or other movable parts, guides, stems, couplings, etc., for Bog Brook and Sodom Dams; and has stated from actual measurements the whole amount of work done and materials furnished under and according to the terms of said agreement, and of the true value thereof; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by John Fox under the agreement above referred to, and direct that a proper voucher for the final payment for work done and materials furnished under said agreement be approved by the Commissioners, and certified to the Comptroller for payment.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, On the 6th day of January, 1892, William H. Baker, contractor for building the head-house and engine-room superstructure at Shaft No. 25, on Section No. 12 of the New Aqueduct, in a written communication addressed to the Aqueduct Commissioners requested their consent to the assignment of said contract to John Peirce, of the City of New York; and the Chief Engineer of the Aqueduct Commissioners having reported in favor of said assignment, and the agreement made by said William H. Baker assigning said work and all the estimates and moneys now due under the contract for doing said work to said John Peirce being now before the Aqueduct Commissioners, we recommend the adoption of the following resolution:

Resolved, That the Aqueduct Commissioners do hereby assent and consent to the assignment of the work of construction of building the head-house and engine-room superstructure at Shaft No.

25, on Section No. 12 of the New Aqueduct, to said John Peirce, and also assent and consent to the assignment of the moneys that now are or hereafter may become lawfully payable under said contract and agreement by the said William H. Baker to the said John Peirce, provided that the form of agreement and this resolution be approved "as to form" by the Counsel to the Corporation before the above-mentioned assent and consent shall become effectual; and provided also that the bondsmen of said William H. Baker shall consent in writing to the subletting of said contract and the assignment of said moneys, and agree that the same shall not impair or affect their liabilities for the faithful performance of said contract by said William H. Baker or by his said assignee.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Commissioners then adjourned.

JOHN C. SHEEHAN, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, January 27, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7606 to 7615, inclusive, amounting to $285.68; also of Voucher No. 7616, being final estimate for six 2 by 5 feet sluice-gates, amounting to $1,680; also of Vouchers Nos. 7618 to 7623, inclusive, being judgments rendered in favor of certain persons employed in the Engineer Corps of the Aqueduct Commission for salary due them, amounting to $2,460.82; also of bills contained in Vouchers Nos. 7624 to 7630, inclusive, amounting to $398.12.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following:

The Construction or Executive Committee present herewith communication of the Comptroller, addressed to the Counsel to the Corporation, concerning claim of George A. Gifford, amounting to $360, for salary claimed to be due him while employed as an Inspector of Masonry on the New Aqueduct, and opinion of the Counsel to the Corporation, addressed to the Comptroller, advising that the claim is a proper one for compromise; and the Comptroller having adjusted and settled said claim for the sum of $120, we recommend the adoption of the following resolution:

Resolved, That a voucher be and hereby is ordered drawn in favor of George A. Gifford for the sum of one hundred and twenty dollars, being the amount adjusted and agreed upon by the Comptroller and said Gifford for salary due him while employed as an Inspector of Masonry in the Engineer Corps of the Aqueduct Commissioners, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following:

The Construction or Executive Committee report:

That they have had under consideration the claim of Breuchaud, Pennell & Co., contractors, in connection with the completion of the masonry Aqueduct, near Shaft No. 30 of the New Aqueduct, and recommend the adoption of the following resolution:

Resolved, That copies of the report of the Chief Engineer, dated February 17, 1891, relative to the claim of Breuchaud, Pennell & Co., as well as his letter of February 28, 1890, and a copy of the claim of said Breuchaud, Pennell & Co., be referred to the Comptroller; and that he be advised that in the opinion of the Aqueduct Commissioners, he will consult the best interests of the City if he should be able to settle and adjust the said claim for a sum not to exceed two thousand dollars.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That authority is hereby given to the Chief Engineer to authorize Mr. E. Fowler to raise the fence which has been erected on the side-hill road near the auxiliary dam, at Carmel, N. Y., at the cost of one hundred and ten dollars, it being the lowest received for doing said work; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, An application has been made by Smith, Brown & Coleman, contractors, for an extension of time for the completion of the work embraced in their contract for building the gate-house superstructure at Croton Dam, on Section 1 of the New Aqueduct; therefore,

Resolved, That, upon the recommendation of the Chief Engineer, the Aqueduct Commissioners hereby grant to Smith, Brown & Coleman, contractors, an extension of time to March 1, 1892, in which to complete the work above referred to, providing their bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to them as further time for the performance of said contract; and also providing said Smith, Brown & Coleman enter into an agreement binding themselves to pay the cost of superintendence of said work from June 1, 1891, to the date of this extension of time.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following report, received from the Secretary, showing the expenditures of the Aqueduct Commission from its inception to January 1, 1892; and recommended that the same be spread in full on the minutes and filed:

Abstract of Trial Balance to January 1, 1892.

Commissioners' Office.		
Salaries of Commissioners	$204,602 07	
Salaries of Secretary and employees	113,098 51	
Stationery	3,333 16	
Furniture and fixtures	3,176 46	
Rent	32,754 80	
Incidental expenses	5,626 83	
Books, maps and drawings	337 10	
Traveling expenses	1,418 89	
Advertising	19,526 64	
Stenographic reports	4,334 29	
		$388,208 75
Chief Engineer's Office.		
Saralies of Engineers, etc	$436,845 69	
Stationery	6,068 83	
Furniture and fixtures	4,278 54	
Rent	37,698 95	
Incidental expenses	6,784 38	
Books, maps and drawings	19,084 39	
Consulting Engineer's fees	100 00	
Drawing instruments, tables and materials	3,992 47	
Testing machines and tests	8,211 81	
		523,065 05
Tarrytown Office.		
Salaries of Engineers	$57,692 24	
Stationery	1,180 41	
Furniture and fixtures	750 25	
Rent	6,600 00	
Incidental expenses	4,030 36	
Books, maps and drawings	92 81	
Drawing instruments, tables and materials	1,127 78	
Laborers on the line	2,703 17	
Drivers and Laborers	19,989 03	
Field instruments and implements	8,776 99	
Traveling expenses	4,081 33	
Harness and stable fittings	2,046 20	
Maintenance—Horses and wagons	11,143 32	
Horses	3,573 00	

Abstract of Trial Balance to January 1, 1892.

Commissioners' Office.		
Salaries of Commissioners	$224,602 07	
Salaries of Secretary and employees	113,098 51	
Stationery	3,333 16	
Furniture and fixtures	3,176 46	
Rent	32,754 80	
Incidental expenses	5,626 83	
Books, maps and drawings	337 10	
Traveling expenses	1,428 89	
Advertising	19,526 64	
Stenographic reports	4,331 29	
		$383,208 75
Chief Engineer's Office.		
Salaries of Engineers, etc	$436,845 69	
Stationery	6,068 83	
Furniture and fixtures	4,278 54	
Rent	37,698 95	
Incidental expenses	6,784 38	
Books, maps and drawings	19,084 39	
Consulting Engineer's fees	100 00	
Drawing instruments, tables and materials	3,992 47	
Testing machines and tests	8,211 81	
		523,065 05
Tarrytown Office.		
Salaries of Engineers	$57,632 24	
Stationery	1,180 41	
Furniture and fixtures	750 25	
Rent	6,600 00	
Incidental expenses	4,030 36	
Books, maps and drawings	92 81	
Drawing instruments, tables and materials	1,1[illegible]7 [illegible]8	
Laborers on the line	2,703 17	
Drivers and Laborers	19,[illegible]83 03	
Field instruments and implements	8,[illegible]76 [illegible]9	
Travel[illegible]	4,081 33	
Barn	2,046 20	
Main	11,143 34	
Hor[illegible]	3,[illegible]73 [illegible]6	

Wagons	$1,518 00	
Hire of horses and wagons	1,424 75	
		$126,729 64

Division Engineers.

Salaries of Engineers and Laborers, old account	$154,834 84	
" " new account	1,314,654 37	
Instruments	5,523 63	
Furniture and fixtures	4,525 13	
Rent	23,439 83	
Incidental expenses	11,487 69	
Books, maps and drawings	51 99	
Drawing instruments, tables and materials	2,896 64	
Field instruments and implements	17,731 50	
Traveling expenses	6,379 60	
Harness and stable fittings	1,513 72	
Maintenance—Horses and wagons	13,065 80	
Horses	1,925 00	
Wagons	1,886 00	
Heating headquarters	8,471 28	
Hire of horses and wagons	690 90	
Testing machines and tests	2,985 60	
Laborers on the line	15 75	
Auxiliary offices	3,316 77	
		1,575,738 04

Croton Lake Survey.

Salaries of Engineers and Laborers	$39,620 04	
Incidental expenses	74 89	
Field instruments and implements	583 15	
Traveling expenses	340 92	
Hire of horses and wagons	130 25	
Maintenance—Horses and wagons	51 60	
Rent	24 00	
Harness and stable fittings	45	
Drawing instruments, tables and materials	1 00	
		40,826 31

New Reservoir Survey.

Salaries, Engineers and Laborers	$9,588 00	
Drawing instruments, tables and materials	25 68	
Field instruments and implements	434 31	
Furniture and fixtures	6 38	

Traveling expenses	$8 54	
Stationery	3 91	
Incidental expenses	52 06	
		$10,118 88
Sodom Dam Survey.		
Salaries, Engineers and Laborers	$7,072 68	
Maintenance—Horses and wagons	2 00	
Field instruments and implements	86 49	
Hire of horses and wagons	50 75	
Incidental expenses	44 98	
Stationery	1 50	
Traveling expenses	47 10	
		7,305 50
Surveying Dam Sites.		
Salaries of Engineers and Laborers	$27,846 70	
Stationery	31 05	
Hire of horses and wagons	102 00	
Field instruments and implements	88 00	
Heating headquarters	6 93	
Furniture and fixtures	37 50	
Traveling expenses	600 49	
Drawing instruments, tables and materials	7 80	
Incidental expenses	727 14	
Maintenance—Horses and wagons	713 95	
Rent	685 38	
Books, maps and drawings	8 00	
		30,844 94
Principal Assistant Engineer, New York Office.		
Heating headquarters	$9 25	
Stationery	59 06	
Furniture and fixtures	36 24	
Incidental expenses	53 36	
		157 91
Aqueduct Commissioners' Report, 1883-1887	$8,901 51	
Engraving and printing	24,408 93	
Reports of Engineers and Aqueduct Commissioners on Quaker Bridge Dam	1,473 16	
Reports of Engineers on High Masonry Dam	490 75	
Construction damages	494 50	
Claims for damages	2438 50	
Taxes on lands	7,976 77	
Land agents	1,168 65	

Diamond rock-boring drills	$141,684 05	
Diamond rock borings	7,077 42	
Monumenting the line	3,704 98	
Monumenting Sodom Dam Survey	1,546 72	
Monumenting Aqueduct tunnel—Division Engineer	143 72	
Models	1,355 43	
Observatory towers	1,805 95	
Judgments	12,621 20	
Land and land damages	57,869 82	
Examination of ventilation and lighting	1,306 36	
Examining Engineers	11,041 82	
Board of Experts, etc., Quaker Bridge Dam	12,550 00	
Experts examining construction work	11,926 16	
Experts on water-gates and other machinery	210 00	
Inspection of cast-iron pipes, etc	8,286 40	
East Branch Reservoir, incidental expenses	165 00	
		$320,647 80

Contracts.

SECTION.	ESTIMATE		
1	Final.	Smith & Brown	$649,964 62
2	"	Brown, Howard & Co.	2,490,829 35
3	"	"	1,836,215 99
4	"	"	1,805,244 83
5	"	"	810,066 15
6	"	O'Brien & Clark	748,852 97
7	"	"	1,777,610 99
8	"	"	1,454,157 36
9	"	"	1,921,087 67
B	"	Heman Clark	1,513,279 76
A	"	"	1,105,778 60
12	"	Chas. Peterson, assignee O'B. & C.	541,923 04
13	"	John Brunton & Co.	427,641 42
14	"	" "	647,869 75
15	"	Richard A. Malone	156,358 20
15½	"	Robert Hanna & Co.	27,416 82
16	"	O'Brien & Clark	1,013,220 54
17	"	Richard J. Malone	37,621 69

East Branch Reservoir Dam	46	Sullivan, Rider & Dougherty	$367,249 19	
Dams 1 and 2	33	David R. Paige & Co.	259,643 83	
Deepening and finishing Shaft No. 24.	Final.	O'Brien & Clark	91,504 59	
Iron lined masonry Aqueduct	"	Breuchaud, Pennell & Co.	69,369 20	
Stop-cock valves	"	Coldwell, Wilcox & Co.	19,649 53	
Gate-house at Pocantico	"	John Peirce	21,717 92	
Shaft 13A	"	O'Brien & Clark	22,963 40	
Shaft 13½	"	" "	18,093 69	
Shaft 15½	"	John A. Lee	15,412 90	
One Hundred and Thirty-fifth Street Gate-house, doors, etc.	"	Charles W. Palmer	6,935 00	
Cast-iron work, wrought-iron work, New Croton Gate-house	"	Coldwell, Wilcox & Co.	16,057 02	
Highways, etc., East Branch, etc.	"	Clinton Stephens	90,851 69	
Gate-house superstructure, walls for Blow-off Chambers at Ardsley.	"	O'Brien & Clark	4,900 00	
Cutting timber, clearing grounds, East Branch Reservoir	"	Penell & O'Hern	8,975 00	
22–2' x 5' sluice-gates, etc., Sections 15 and 17	"	John Fox	14,190 00	
3' x 4' sluice-gates, Pocantico, Ardsley and Yonkers Gate-house	"	John Fox	6,750 00	
3' x 6' sluice-gates	"	John Fox	21,900 00	
Earth and masonry dam, Reservoir M	21.	Washburn, Shaler & Washburn	216,582 95	
Gate-house at South Yonkers	Final	O'Brien & Clark	20,349 79	
Gate-house for new gate chambers at Croton Dam, Section 1	"	Smith, Brown & Coleman	27,802 35	
Combined stationary hoisting engines, etc., for Shaft 25	"	Charles Peterson	11,250 00	
2 pairs horizontal tubular boilers, etc.	"	West Point Manufacturing Company	11,900 00	
Earth and masonry dam, Reservoir D	13	Michael S. Coleman	34,333 81	
Auxiliary earth and masonry dam, Reservoir D	13	"	33,283 57	
11 head-houses, etc., for shafts	Final.	Breuchaud, Pennell & Co.	40,251 28	
Blow-off Shaft 24	4	John M. Waddle	1,644 91	
Blow-off Shaft 24	6	John F. Gaynor, assignee of John M. Waddle	3,858 05	
2 complete portable hoisting plants	Final.	The West Point Manufacturing Co.	7,800 00	
Highway, retaining-walls, appurtenances, etc., Croton Dam	4	Augustine M. Newton	4,260 36	
Grading, improving and fencing grounds, One Hundred and Thirty-fifth Street Gate-house.	2	Peter J. Moran	794 79	
				$20,435,814 57

Agreements.

Section.	Estimate.			
Shaft 11C	Final.	Brown, Howard & Co.	$5,000 00	
Shaft 12C	"	O'Brien & Clark	5,000 00	
Shaft 16½	"	"	5,000 00	
Shaft 18½	"	"	5,000 00	
Shaft 19½	"	Heman Clark	5,000 00	

Culvert, Shaft 19	Final.	O'Brien & Clark	$4,893 74	
" 20	"	Heman Clark	2,032 05	
" 23	"	O'Brien & Clark	3,208 86	
Crib Dock	"	Charles Peterson	3,694 60	
Ironwork, Saw Mill River Blow-off	"	Coldwell, Wilcox & Co	1,962 57	
Pocantico Blow-off	"	"	144 11	
Tibbett's Brook Blow-off	"	"	144 11	
Lining Shafts 22 to 24, Section A	"	"	4,450 75	
" Shaft 20, Section B	"	"	2,663 28	
" Shaft 28, Section 13	"	"	2,315 02	
" Shaft 29, Section 14	"	"	2,358 57	
Cast and wrought iron ladders, Sections 1 to 9 and B and A	"	"	2,824 25	
Roof, iron floor plates	"	"	3,326 70	
Cast-iron special pipe	"	"	4,931 19	
Filling low ground, Shaft Site No. 12	"	O'Brien & Clark	4,910 00	
Cave-in, Shaft 13	"	"	5,000 00	
Laying 20" pipe, Shaft 24	"	"	2,895 83	
Grouting, Shaft 17½	"	"	4,427 50	
Grouting, Stations 778 and 779	"	"	1,075 00	
Grouting, Section 13	"	Rogers, Shanly & Co	5,000 00	
Grouting, Shaft 30	"	Breuchaud, Pennell & Co	2,900 93	
Highway trestle work and bridges	"	Smith & Brown	4,500 00	
Sodding South Yonkers embankment	"	Rider & Dougherty	1,575 57	
Taking down and enlarging top of Shaft 11C	"	C. L. Kalmbach	2,917 32	
Walls, foundations, etc., near blow-off chambers, Shaft 24	"	Charles Peterson	2,233 12	
Frame head-house and enlarging room, Shaft 25	"	"	3,690 00	
Frame boiler-house and coal bin, Shaft 25	"	"	3,635 00	
Shaft 17½	Final.	Thomas O'Hern	2,222 12	
9" anti-friction pump and improved turbine wheel, etc., Croton Dam Gate-house, Section 1	"	Joseph Edwards & Co	2,135 00	
6-2'x5' sluice-gates at Bog Brook, etc.	1	John Fox	2,520 00	
Pivot gate, Bog Brook Dams 1 and 2	Final.	Coldwell, Wilcox & Co	2,445 00	
Finishing Shaft 21	"	Wm. H. Baker	1,660 81	
				$120,593 00
Bailing, pumping, etc., Section A			$11,309 50	
Pumping water in iron pipes, Section 12			6,063 65	
" " 13			5,405 00	
" " 14			7,935 00	

Iron pipe laid in tunnel, Section A	$4,615 76	
" " B	980 50	
48-inch pipes at Shaft 11B	327 50	
48-inch stop-cock valves	4,500 00	
Ironwork, etc., at shafts	17,501 15	
Ironwork, etc., for gate-house and blow-offs	15,817 27	
Timber work, etc., at shafts and gate-houses	19,333 02	
Explorations under the Harlem river	4,384 26	
Experimental section in concrete, Shaft 18	185 25	
Extra work, etc., on Section 1	4,616 03	
" " 6	42 70	
" " 12	171 35	
" " 14	597 49	
" " 15	89 32	
" " 16	668 98	
" enlarging Shaft 11C	147 81	
" on the Pocantico Gate-house	287 44	
Additional work, Section 9	49 37	
" " 12	65 73	
" " A	1,609 56	
" East Branch Reservoir Dam	1,353 78	
" Dams Nos. 1 and 2	60 00	
" Earth and masonry dam, Reservoir M	1,339 53	
" Highways on roads at East Branch	3,095 00	
" Shaft 21	85 50	
Removing solid rock, etc	701 03	
Grading, etc., trenches, Quaker Bridge Dam site	150 00	
Grading and finishing the grounds adjacent Shaft 19⅝	125 00	
Survey and Topographical Map on Croton Watershed	7,000 00	
Soundings south of One Hundred and Thirty-fifth street	931 18	
Sinking test pits, Titicus river and Reservoir D Dam sites	540 35	
Hoisting-engines for shafts	1,200 00	
Coating interior of Aqueduct with cement	8,384 37	
Telephone line	4,995 62	
Preparing pumping, etc., inverted siphon	2,643 91	
Preparing Aqueduct for permanent use	211 66	
Iron bridge on the East Branch of the Croton river	2,145 00	
Ironwork, etc., for dams	2,773 74	
Fencing around reservoirs, shafts—sites, etc	530 10	
		$134,969 41
		$23,715,019 81

Commissioners of Appraisal—Awards.		
Twenty-fourth Ward	$163,090 47	
Manhattan Island Section	802,230 93	
Westchester County	245,906 86	
Putnam County Section	410,027 34	
		$1,621,255 60
Commissioners of Appraisal.		
City and County of New York	$98,519 82	
Westchester County	188,151 56	
Manhattan Island Section	77,100 50	
Putnam County Section	113,335 22	
		477,107 10
Total expenditures		$25,813,382 51
Cr.		
Additional Water Stock	$24,945,000 00	
Premium account	607,168 70	
Additional Water Fund—"Miscellaneous"	7,822 25	
Total receipts	$25,559,990 95	
Balance, Comptroller's account vs. Aqueduct Commission	253,391 56	
		25,813,382 51

Statement of Receipts and Expenditures of the Aqueduct Commissioners to January 1, 1892.

RECEIPTS.			
From Bonds Issued—			
Amount of bonds	$24,945,000 00		
Premiums on same	607,168 70		
		$25,552,168 70	
From proceeds of miscellaneous sales, etc		7,822 25	
Total receipts			$25,559,990 95
EXPENDITURES.			
Vouchers, pay-rolls, etc	$2,965,773 01		
Contracts, agreements, etc	20,691,376 98		
Land and land damages	57,869 82		
		$23,715,019 81	

Commissioners of Appraisal—			
Awards	$1,621,255 60		
Fees of Counsels, Commissioners, etc.	477,107 10		
		$2,098,362 70	
Total expenditures			$25,813,382 51
Comptroller's balance vs. Aqueduct Commissioners			$253,391 56

On motion of Commissioner Scott, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, January 26, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—In accordance with your verbal instructions on the 20th instant, I directed Division Engineer Craven to form two additional surveying parties for the purpose of laying out the new roads and embankments on the site of Reservoir "D," and to employ as Laborers with such parties, at the rate of $2.50 per day, the following Superintendents of Dam Construction, whose assignment to duty as such ceased on January 1, 1892, viz.:

A. J. Sparrow, P. J. Moynihan, L. S. Rossell and Gerald McMurray, each of whom has been requested to sign the following agreement:

"In consideration of my employment at my own request, as Laborer upon surveying work, I hereby agree to accept as compensation during such employment the sum of $2.50 per day for each day actually employed, and waive and release any claims or demands to any other or greater compensation during such employment."

I am, very respectfully,

A. FTELEY, Chief Engineer.

—and recommended that the action of the Chief Engineer as set forth therein be approved.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Hugh Montague vs. The Mayor, Aldermen and Commonalty of the City of New York for the sum of four hundred and forty-one dollars and six cents; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Hugh Montague for the sum of four hundred and forty-one dollars and six cents, being amount of judgment rendered in favor of said Montague for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled John Costello vs. The Mayor, Aldermen and Commonalty of the City of New York for the sum of one hundred and sixty-five dollars and twenty-six cents; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of John Costello for the sum of one hundred and sixty-five dollars and twenty-six cents, being amount of judgment rendered in favor of said Costello for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Charles G. Douw vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of three hundred and thirty dollars; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Charles G. Douw for the sum of three hundred and thirty dollars, being amount of judgment rendered in favor of said Douw for salary due him while employed as an Assistant Engineer on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Hubert Keegan vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of one thousand two hundred and five dollars; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Hubert Keegan for the sum of one thousand two hundred and five dollars, being amount of judgment rendered in favor of said Keegan for salary due him while employed as an Axeman on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Daniel F. McCort vs. The Mayor, Aldermen and Commonalty of the City of New York for the sum of one hundred and ninety-nine dollars and fifty cents; therefore,

Resolved, That a voucher be and hereby is ordered drawn in favor of Daniel F. McCort for the sum of one hundred and ninety-nine dollars and fifty cents, being amount of judgment rendered

in favor of said McCort for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Comptroller, under date of December 31, 1891, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Westchester County Section	$23,239 67
Reservoir "D"	60,238 73
Reservoir "M"	6,383 41

—and stating that there had been placed to the credit of Additional Water Fund by the issue of bonds on

November 7, 1891	$100,000 00
December 10, 1891	100,000 00
December 24, 1891	50,000 00

—and further stating that the balance to the credit of Additional Water Fund on the first mentioned date is $46,956.38.

Which were ordered entered upon the books of the Commission and filed.

On motion of Commissioner Cannon, the minutes of meetings of December 11, 23 and 30, 1891, and January 6, 1892, were ordered approved.

The Commissioners then adjourned.

JOHN C. SHEEHAN, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, February 3, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker, Scott and Cannon.

In the absence of the Secretary, Auditor J. C. Lulley acted as Secretary pro tem.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7637 to 7650, inclusive, amounting to $3,494.30.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in directing B. F. Kipp to furnish wooden rings and windlass for sinking a test-pit at the Cornell Dam site, at his bid of one hundred and twenty dollars, it being the lowest bid received for doing said work, is hereby approved; and the bill for doing said work, herewith presented, for said amount, is hereby approved and ordered certified to the Comptroller for payment, and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote:

Affirmative—The Comptroller, and Commissioners Duane, Tucker, Scott and Cannon—5.

The Committee also presented the following communication received from the Chief Engineer:

NEW YORK, February 3, 1892.

To the Honorable Committee on Construction:

GENTLEMEN—This is to notify you that the services of Robert W. Creuzbaur, Draughtsman, can be dispensed with, and I recommend that he be discharged. Mr. Creuzbaur's services in the draughting-room have always been satisfactory.

Very respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That in compliance with the recommendation of the Chief Engineer, the services of Robert W. Creuzbaur, employed as Draughtsman in the Engineer Corps, be and the same are hereby dispensed with, the same being no longer required.

On motion of Commissioner Scott, the same was adopted.

The Secretary gave notice of the filing of a lien by Lincoln Frank against Levy & Quinn, contractors, for damages for breach of contract on the contract awarded to them for grading, improving and fencing the grounds at several of the shaft sites of the New Aqueduct, amounting to $1,750.

Which was ordered filed.

The Commissioners then adjourned.

J. C. LULLEY, Secretary pro tem.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, February 17, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of Vouchers Nos. 7652 to 7660, inclusive, being estimates for work done by contractors, amounting to $20,293.88; also of bills contained in Vouchers Nos. 7661 to 7674, inclusive, and 7680 to 7694, inclusive, amounting to $997.87; also of Vouchers Nos. 7675, 7676, 7678 and 7695, being judgments rendered in favor of certain persons for salary due them, amounting to $1,547.41.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, February 9, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—During the past week the water at Sodom Dam has been running over the spillway to an average depth of about 1¼ inches. We are now preparing to open the tunnel gate to commence filling the Bog Brook Reservoir.

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer, and recommended that the same be spread infull on the minutes and filed:

NEW YORK, February 15, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—During the last week the water has been flowing as before over the spillway at Sodom Dam to the extent of less than an inch, until the 12th instant, when water was turned into

Bog Brook Reservoir to the extent of about 30,000,000 gallons per day. Bog Brook Reservoir is filling up slowly.

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, an extension of the leave of absence, without pay, heretofore granted to Assistant Engineer B. R. Value, is hereby granted to June 1, 1892, and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That vouchers be and hereby are ordered drawn in favor of the following named persons, and for the following amounts, to reimburse them for taxes paid by them in the year 1891, on property formerly owned by said parties in the Town of Carmel, N. Y., but which has now become seized in fee by the City of New York, and certified to the Comptroller for payment:

Eleazer H. Ganong	$5 82
Sylvester F. Best	67 57
George E. Sunderlin	2 33
Benjamin Secord	11 50
Gideon See	18 45

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Jacob E. Crow, being for eight months' storage of portable hoisting plant, at Sing Sing, N. Y., amounting to eighty dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Secretary:

NEW YORK, February 2, 1892.

To the Committee on Construction:

GENTLEMEN—At a meeting of the Aqueduct Commissioners, held on December 3, 1890, the following preambles and resolution were adopted:

"Whereas, The act, chapter 490 of the Laws of 1883, known as the New Aqueduct Act, imposes upon this Commission the duty of providing new reservoirs, dams and a new aqueduct for the purpose of supplying the City of New York with an increased supply of pure and wholesome water; and

"Whereas, By the practical completion, ready for use, of the New Aqueduct, the Commission has completed one part of the duty thus imposed upon it; and

"Whereas, No formal report of the action and operation of the Commission since January 1, 1887, has been made,

"Resolved, That the Chief Engineer and the Secretary are hereby directed to prepare, under the supervision and direction of the Committee on Construction, and to present to this Commission, at an early day, a review and report of the work of the Commission from the first day of January, 1887, to the first day of January, 1891, which shall be accompanied by such schedules, maps, plans and other statistical information as the Committee on Construction shall deem proper, and particularly with copies of so much of the plans of dams now in process of building, as shall serve to show the general dimensions and construction of said dams."

In compliance with the directions contained in said resolution, I submit herewith a review and report of the work of the Commission from January 1, 1887, to and including January 1, 1892.

Respectfully,

JOHN C. SHEEHAN, Secretary.

—and recommended the adoption of the following resolution:

Resolved, That the Chief Engineer and Secretary are hereby authorized and directed to take the necessary steps to have one thousand copies of the review and report of the work of the Aqueduct Commission from the first day of January, 1887, to the first day of January, 1892, printed in book form, similar to the report issued by the Aqueduct Commissioners, showing the progress of the work during the year 1883 up to and including the year 1887; and an appropriation of five thousand dollars, or so much thereof as may be necessary, is hereby made to cover the expense of printing and binding said reports.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Secretary, Jefferson Groub and Herrmann Blumenthal, employed as Clerks in the office of the Secretary of the Commission, are hereby promoted from the first to the second grade of clerkship, they having been certified by the Civil Service Commission as eligible for such promotion; their salary, however, to remain the same as that now being paid to them.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, February 15, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—When letting the water into Bog Brook we met with an accident at the tunnel gate, and, although everything is secured for the present, it is essential that the new machinery be put in place without delay to take the place of the broken one.

With the permission of the President, I have given the necessary order therefor to Messrs. Cold-well, Wilcox & Co., the builders of the original machinery.

I would ask you, at the same time, in view of this accident, to provide a spare gear for the hoisting apparatus of the other gates at Sodom and Bog Brook dams.

I am, very respectfully,

A. FTELEY, Chief Engineer.

—and recommended that the action of the Chief Engineer, as therein set forth, be approved, and that the authority asked for therein be granted.

On motion of Commissioner Scott, the recommendation was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That, on the recommendation of the Chief Engineer, C. F. Ferrer, who was employed as a Rodman on the New Aqueduct and who failed to report for duty after the expiration of six months' leave of absence granted on January 1, 1887, be and he is hereby discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That William Barry, who was employed as an Axeman on the New Aqueduct, and who left the work on December 1, 1888, and who has never since reported for duty, be and is hereby discharged as of said date.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, A. H. Grant, who was employed as Rodman on the New Aqueduct, and who was suspended at his own request on September 11, 1885, and who never returned to duty, be and is hereby discharged from the service of the Aqueduct Commission as of September 11, 1885.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the appointment of H. R. Denny, who was appointed an Axeman on March 31, 1887, and who failed to report for duty, be and the same is hereby revoked.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the appointment of Joseph Kenny, who was appointed an Axeman on March 31, 1887, and who failed to report for duty, be and the same is hereby revoked.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the appointment of James Connolly, who was appointed an Axeman on June 13, 1887, and who failed to report for duty, be and the same is hereby revoked.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the appointment of James Bennett, who was appointed an Axeman on September 17, 1888, and who failed to report for duty, be and the same is hereby revoked.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, C. Leonhard, who was employed as Draughtsman on the New Aqueduct, and who failed to report for duty after the expiration of two months' leave of absence granted on December 1, 1891, be and hereby is discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, William Horton who was employed as an Axeman on the New Aqueduct, and who failed to report for duty after the expiration of six months' leave of absence granted on April 1, 1891, be and hereby is discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, H. R. Wheeler, who was employed as an Assistant Engineer on the New Aqueduct, and who was granted an indefinite leave of absence on November 1, 1889, be and hereby is discharged from the service of the Aqueduct Commission.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, A. J. Lamb, who was employed as a Transitman on the New Aqueduct, and who was granted a three months' leave of absence on July 20, 1887, and failed to report for duty after the expiration of such leave of absence, be and hereby is discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, A. B. Satterlee, who was employed as a Transitman on the New Aqueduct and who was granted an indefinite leave of absence on account of ill health, be and hereby is discharged from the service of the Aqueduct Commissioners.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, on the recommendation of the Chief Engineer, G. C. Marrin, who was employed as a Chainman on the New Aqueduct, and who, owing to ill health, was granted a leave of absence, without pay, from February 4 to May 1, 1889, and who failed to report for duty after the expiration of such leave of absence, be and he is hereby discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, R. C. Rathborne, who was employed as a Leveler on the New Aqueduct, and who failed to report for duty after the expiration of six months' leave of absence granted on June 14, 1890, be and is hereby discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, F. W. Carpenter, who was employed as a Leveler on the New Aqueduct, and who failed to report for duty after the expiration of six months' leave of absence granted on July 1, 1887, be and is hereby discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the resignation of O. L. Ingalls, who was employed as a Computer in the Engineer Corps of the Aqueduct Commission, be and the same is hereby accepted to take effect as of July 2, 1890.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, H. B. Alderson, who was employed as a Rodman on the New Aqueduct, and who failed to report for duty after the expiration of six months' leave of absence granted on November 1, 1889, be and is hereby discharged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, H. C. Allen, who was employed as an Assistant Engineer on the New Aqueduct, and who failed to report for duty after the expiration of six months' leave of absence granted on November 1, 1890, be and hereby is dis-

charged from the service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, J. N. H. Cornell, who was employed as a Leveler on the New Aqueduct, and who failed to report for duty after the expiration of six months' leave of absence granted on April 22, 1890, be and is hereby discharged from further service of the Aqueduct Commission from the date of the expiration of said leave of absence.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, George Endicott, who was employed as a Leveler on the New Aqueduct, and who was granted an indefinite leave of absence on November 14, 1888, on account of ill health, and who failed to report for duty afterwards, be and is hereby discharged from the service of the Aqueduct Commission.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the services of John R. Vernam, who was employed as Messenger in the office of the Secretary of the Aqueduct Commissioners, and who was granted an indefinite leave of absence on January 14, 1891, be and the same are hereby dispensed with.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Thomas Byrnes vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of two hundred and fifty dollars and seventy cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Thomas Byrnes for the sum of two hundred and fifty dollars and seventy cents, being amount of judgment rendered in favor of said Byrnes for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Edward L. Studwell vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of four hundred and eleven dollars and fifty cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Edward L. Studwell for the sum of four hundred and eleven dollars and fifty cents, being amount of judgment rendered in

favor of said Studwell for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Moses Horgan vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of thirty-two dollars and ninety-five cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Moses Horgan for the sum of thirty-two dollars and ninety-five cents, being amount of judgment rendered in favor of said Horgan for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled William H. Crumie vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of eight hundred and fifty-two dollars and twenty-six cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of William H. Crumie for the sum of eight hundred and fifty-two dollars and twenty-six cents, being amount of judgment rendered in favor of said Crumie for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

On motion of Commissioner Scott, the minutes of meetings of January 13 and 27 and February 3, 1892, were ordered approved.

The Commissioners then adjourned.

JOHN C. SHEEHAN, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, February 24, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in vouchers Nos. 7697 to 7712, inclusive, amounting to $689.29.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due School District No. 2, Town of Mount Pleasant, N. Y., amounting to $12.82, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Breuchaud, Pennell & Co., for extra work done in the construction of head-houses along the line of the New Aqueduct, amounting to $220, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, February 23, 1892.

To the Honorable the Committee on Construction

GENTLEMEN—On December 30 last, by resolution of the Aqueduct Commissioners, authority was given to the Chief Engineer to have printed one hundred and fifty (150) copies of the contract plans of the New Croton Dam at Cornell site, and the sum of $350 was appropriated to cover the

cost thereof. Owing, however, to the size of some of the plans, which cover an unusually large space, I find that the cost of the work will be $389.

I would respectfully recommend that an additional appropriation of $39 be made for this purpose.

I am, very respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, an appropriation of thirty-nine dollars is hereby made to cover the additional cost of printing copies of the contract plans of the New Croton Dam at Cornell site.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, Application has been made by Washburn, Shaler & Washburn, contractors, for an extension of time for the completion of their contract for building an earth and masonry dam for Reservoir "M," on Titicus river, near Purdy's Station, N. Y., to December 31, 1893; and the Chief Engineer having recommended that such extension of time be granted ; therefore

Resolved, That the Aqueduct Commissioners hereby grant to Washburn, Shaler & Washburn, contractors, an extension of time to December 31, 1893, in which to complete the contract above referred to, providing their bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to them as further time for the performance of said contract ; and provided also that said contractors will take, at their own expense, all precautions for doing the work in cold weather as may be ordered by the Engineer, and that they will waive all claims for damages whatsoever on account of any raising or lowering of the water in the reservoir that the Commissioners or their Engineer may order, or from such injury or damage as may be caused by the action of the elements ; and provided also that if any damage is done to their work by such cause, they will waive all claim for compensation on account of damage, loss of time, or on account of other losses which they may incur from the rising of said water ; and provided also that they will take, at their own expense, such precautions for protecting the gates at said dam, by boxing or otherwise, as may be ordered by the Engineer.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Commissioners then adjourned.

JOHN C. SHEEHAN, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Wednesday, March 2, 1892, at 3 o'clock, P. M.

Present—The Commissioner of Public Works, and Commissioners Duane, Tucker and Scott.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7718 to 7733 inclusive, amounting to $877.27.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, February 29, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Since my last report, dated the 23d instant, the flow of water through the tunnel into Bog Brook Reservoir and from Sodom Dam has continued the same, viz. : at the rate of 30,000,000 and 20,000,000 gallons per twenty-four hours respectively.

The elevation of the water surface of Sodom Reservoir is now 413.67 feet, and the water behind the Bog Brook Dams is at elevation 386.40, i. e., 17.4 feet above the top of the lower pipe.

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer, and recommended that the action of the Chief Engineer be approved :

NEW YORK, February 29, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—This is to inform you that, owing to the temporary interruption of work at Bog Brook Dams on account of the weather, I have notified the Superintendents of Dam Construction whose names follow that their assignment to duty ceased on the 23d instant.

William N. Cook.	Thomas Graham.
A. L. Crosby.	Timothy Capper.
John Holihan.	

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the same was laid on the table.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bills for taxes due the Town of Southeast, Putnam County, New York, amounting to one thousand and ninety-six dollars and ninety-eight cents and seventy dollars and fifty cents, respectively, are hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

On motion of Commissioner Scott, the Secretary was directed to communicate with Mr. H. T. Dykman and request him to furnish the Commissioners with a list of all unpaid taxes on property taken by the Commissioners in Westchester and Putnam Counties, and also to endeavor to make an arrangement with Mr. Dykman for the payment by him of the various amounts of unpaid taxes on such property and the reimbursement and repayment to him of said amounts by the Commissioners upon one voucher.

The Committee also presented the following resignation of John C. Sheehan, Secretary of the Commission, dated February 29, 1892, and recommended that the same be accepted to take effect as of said date :

NEW YORK, February 29, 1892.

To the Aqueduct Commissioners :

GENTLEMEN—I hereby resign my position as Secretary of the Aqueduct Commissioners, said resignation to take effect at once.

In thus severing my connection with the Commission, I desire to thank the Commissioners one and all for the confidence they have always placed in me and for the many acts of kindness tendered to me.

Very respectfully yours,

JOHN C. SHEEHAN.

In connection therewith the Committee presented the following, and recommended that the same be spread in full on the minutes, and that a copy thereof be transmitted to Mr. Sheehan :

In accepting the resignation of Mr. John C. Sheehan, as Secretary of this Commission, the Aqueduct Commissioners desire to place on record their high appreciation of his industry, capacity and fidelity to duty. His administration of the important office of Secretary to this Board has been marked throughout our term as Commissioners by a close and careful attention to the duties of his office, and by unfailing loyalty to the Commission and the interests of the City. He carries with him to his new and more conspicuous office our best wishes for his success and prosperity, and our full confidence in the record he will make in the office to which he has been appointed.

On motion of Commissioner Scott, the resignation was accepted, and the recommendation approved.

The Committee also recommended the adoption of the following resolution :

Resolved, That Julius C. Lulley be and he is hereby appointed Secretary pro tem. of the Aqueduct Commission, at the salary of four thousand dollars per annum, being the salary now attached to the office of Secretary, said appointment and salary to commence and date from

March 1, 1892; and that until further orders of the Board the Secretary perform the duties of Auditor as well as those of Secretary.

On motion of Commissioner Scott, the same was adopted.

On motion of Commissioner Scott, the following preamble and resolution, adopted on January 13, 1892, was reconsidered:

"Whereas, On the sixth day of January, 1892, William H. Baker, contractor for building the head-house and engine-room superstructure at Shaft No. 25, on Section No. 12 of the New Aqueduct, in a written communication addressed to the Aqueduct Commissioners requested their consent to the assignment of said contract to John Peirce, of the City of New York; and the Chief Engineer of the Aqueduct Commissioners having reported in favor of said assignment, and the agreement made by said William H. Baker assigning said work and all the estimates and moneys now due under the contract for doing said work to said John Peirce being now before the Aqueduct Commissioners, we recommend the adoption of the following resolution:

Resolved, That the Aqueduct Commissioners do hereby assent and consent to the assignment of the work of construction of building the head-house and engine-room superstructure at Shaft No. 25, on Section No. 12 of the New Aqueduct, to said John Peirce, and also assent and consent to the assignment of the moneys that now are or hereafter may become lawfully payable under said contract and agreement by the said William H. Baker to the said John Peirce, provided that the form of agreement and this resolution be approved "as to form" by the Counsel to the Corporation before the above-mentioned assent and consent shall become effectual; and provided also that the bondsmen of said William H. Baker shall consent in writing to the subletting of said contract and the assignment of said moneys, and agree that the same shall not impair or affect their liabilities for the faithful performance of said contract by said William H. Baker or by his said assignee."

And, in lieu thereof, on motion of Commissioner Scott, the following preambles and resolution were adopted:

Whereas, On the 6th day of January, 1892, William H. Baker, contractor for building the head-house and engine-room superstructure at Shaft No. 25, on Section No. 12 of the New Aqueduct, in a written communication addressed to the Aqueduct Commissioners, requested their consent to the assignment of said contract to John Peirce of the City of New York, and the Chief Engineer of the Aqueduct Commissioners having reported in favor of said assignment; and

Whereas, the said William H. Baker has executed to said John Peirce an assignment of said contract duly executed under seal; and

Whereas, Charles Peterson and Jesse Peterson, the sureties on the bond of said Charles Peterson and Jesse Peterson, under said contract, have consented to said assignment by an agreement under seal, which said assignment and said agreement are filed with this Board; and

Whereas, the said assignment, agreement and this resolution have been approved as to form by the Counsel to the Corporation;

Resolved, That the Aqueduct Commissioners do hereby assent and consent to the assignment of the work of construction of building the head-house and engine-room superstructure at Shaft No. 25, on Section No. 12 of the New Aqueduct, to said John Pierce, and also assent and consent to the

assignment of the moneys that now are or hereafter may become lawfully payable under said contract and agreement by the said William H. Baker to the said John Pierce.

The Comptroller, under date of January 30, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Westchester County Section	$4,689 67
Manhattan Island Section, additional lands	88 35
Sodom Dam and Reservoir	174 15

—and stating that on January 26, 1892, bonds were issued to the credit of the Additional Water Fund for $200,000, and further stating that the balance to the credit of said fund is $80,882.48.

And, under date of February 29, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Double Reservoir "I" (Sodom Dam)	$42,716 94
New York County Section, additional lands	401 80
Cornell Dam	4,153 60
Reservoir "D"	640 90

—leaving a balance to the credit of Additional Water Fund of $7,356.32.

Which were ordered entered upon the books of the Commission and filed.

The Commissioners then adjourned

J. C. LULLEY, Secretary pro tem.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, March 16, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7734 to 7750, inclusive, and Nos. 7753 to 7765, inclusive, amounting to $3,261.25; also of Vouchers Nos. 7766 to 7774, inclusive, being estimates for work done by contractors, amounting to $24,850.39.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, March 8, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated February 29, the flow of water through the tunnel into Bog Brook Reservoir and from Sodom Dam has continued the same, viz., at the approximate rate of 30,000,000 gallons and 20,000,000 gallons per twenty-four hours, respectively.

The water surface in Sodom Reservoir is now at elevation 413.26 feet, and the water behind the Bog Brook Dams is at elevation 390.09, i. e., 21.09 feet above the top of the lower pipe.

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, March 15, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated March 8, the flow of water from the Brewster Reservoirs, including the river, has remained the same.

The water in Sodom Reservoir is at elevation 414.63, and in Bog Brook it has raised to elevation 393.12.

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bill for taxes due School District No. 5, Town of Greenburgh, Westchester County, New York, amounting to ten dollars and sixty-two cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of I. Terwilliger, being for lumber used as lining in sinking the test-pit at Cornell's site, amounting to sixty-three dollars and fifty-eight cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Walter Twiggar for occupancy of house in Croton Valley, near the Cornell's site, for storing of dynamite, instruments and tools, and for office purposes, and also for damage done to his garden and cultivated field for boring purposes, amounting to eighty dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in reassigning Superintendents of Dam Construction Abner L. Crosby and Timothy Capper to duty at Bog Brook Dams on March 8 last, is hereby approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the resolution adopted on February 17 last, discharging R. C. Rathborne, Leveler, from the service of the Aqueduct Commission, is hereby reconsidered and rescinded, and his resignation, herewith presented, is hereby accepted, to take affect from June 14, 1890.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolutions :

Resolved, That Julius C. Lulley be and hereby is appointed Secretary to the Aqueduct Commission at the annual salary of $4,000, in place of John C. Sheehan, resigned.

Resolved, That Ernest A. Wolff be and hereby is appointed Auditor to the Aqueduct Commission, at an annual salary of $2,500, in place of Julius C. Lulley, promoted to be Secretary.

The same were adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following resignation of Patrick H. Lydon:

NEW YORK, March 16, 1892.

To the Aqueduct Commissioners:

GENTLEMEN—I hereby resign my position as Inspector of Masonry on the New Aqueduct, the same to take effect as of April 23, 1890.

Respectfully yours,

PATRICK H. LYDON.

—and, in connection therewith, recommended the adoption of the following preambles and resolution:

Whereas, On the 23d day of April, 1890, Patrick H. Lydon, then a veteran and an Inspector of Masonry on the New Aqueduct, was discharged; and

Whereas, The said Patrick H. Lydon desires, for reasons personal to himself, that the resolution discharging him be rescinded, and that he be permitted to resign with the same force and effect; and

Whereas, The Aqueduct Commission are willing to grant the desire of the said Lydon to rescind the resolution and to permit a resignation with the same force and effect, upon condition that the said Lydon waives any and all claims to responsibility that might arise by reason of his being reinstated and by reason of his being a veteran; and

Whereas, The said Patrick H. Lydon has executed an instrument exonerating, discharging, releasing and quit-claiming unto the Mayor, Aldermen and Commonalty of the City of New York, and the Aqueduct Commissioners, any and all claim which he may have in law or otherwise growing out of the withdrawal and rescinding of the said resolution of April 23, 1890, for salary or otherwise, and by reason of being a veteran; therefore

Resolved, That the resolution adopted by the Aqueduct Commissioners on April 23, 1890, discharging Patrick H. Lydon from the service of the Aqueduct Commissioners, is hereby rescinded; and his resignation, herewith presented, is hereby accepted to take effect as of said last-mentioned date.

On motion of Commissioner Scott, the same were adopted.

The Committee also presented the following resignation of E. P. Roberts, Assistant Engineer:

SING SING, N. Y., March 16, 1892.

The Honorable the Aqueduct Commissioners:

GENTLEMEN—Being desirous of entering upon a business which will require all my time and attention, I would respectfully submit my resignation, to take effect this date.

Respectfully, etc.,

E. P. ROBERTS, Assistant Engineer.

—and recommended the adoption of the following resolution:

Resolved, That in accepting the resignation of Mr. E. P. Roberts, the Aqueduct Commission deem it fitting to place on record its appreciation of the thorough and satisfactory manner in which he has performed the duties assigned to him.

On motion of Commissioner Cannon, the same was adopted.

On motion of Commissioner Tucker, the minutes of meetings of February 17 and 24; also of March 2, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Wednesday, March 23, 1892, at 3 o'clock, P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7776 to 7790, inclusive, amounting to $583.88.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed.

NEW YORK, March 22, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated the 15th instant, the flow of water from Sodom reservoir through the tunnel into Bog Brook reservoir has continued. The daily flow is now roughly estimated at 80,000,000 gallons. The daily supply for the river of 20,000,000 gallons has been drawn from the Bog Brook reservoir instead of the Sodom reservoir. The water surface in the latter was, on the 19th instant, at elevation 413.89, and in the Bog Brook reservoir at elevation 396.57, i. e., 27.57 feet above the top of the lower pipe.

I am, very respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation, under date of March 12, 1892, has advised the Comptroller that the City is liable for the payment of interest on the amounts deducted under the advice of the Counsel to the Corporation from the final estimates on contracts for Sections 2, 3, 4 and 5 of the New Aqueduct, which amounts were, by resolution of this Board, adopted on January

13, 1892, and under the advice of the Counsel to the Corporation allowed to the contractors; therefore,

Resolved, That the following-named amounts be allowed for interest on said sums deducted, viz.:

Section 2—On $26,661.80, interest from June 16, 1890, date of demand, to March 24, 1892, $2,835.03. Section 3—On $19,100.80, interest from June 16, 1890, date of demand, to March 24, 1892, $2,031.05. Section 4—On $24,213.20, interest from June 16, 1890, date of demand, to March 24, 1892, $2,574.67. Section 5—On $15.732.15, interest from October 15, 1889, date of demand, to March 24, 1892, $2,304.76; making a total of $9,745.51, and that a proper voucher be prepared for certification and transmission to the Comptroller for payment, requisition for said sum being hereby made upon the Comptroller.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee of Finance and Audit reported their examination and audit of Voucher No. 7791, being for interest on amounts deducted for cost of superintendence on Sections 2, 3, 4 and 5 of the New Aqueduct, amounting to $9,745.51.

On motion of Commissioner Tucker, the same was approved and ordered certified to the Comptroller for payment.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, March 30, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7795 to 7810, inclusive, amounting to $871.62.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, March 29, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Since my last report, dated the 22d instant, the flow of water from Sodom Reservoir has continued at about 80,000,000 gallons per twenty-four hours. The daily supply for the river of 20,000,000 gallons has been drawn from the Bog Brook Reservoir. The water surface in the former was, on the 26th instant, at elevation 412.38, and in the Bog Brook Reservoir the water was at elevation 401.20, i. e., 32.20 feet above the top of the lower pipe.

I have to report that during the last week the Chief Engineer of the Croton Aqueduct, at my request, put the control of the flow of water of the New Aqueduct in my hands, within the limits of the City's requirements, for the purpose of making certain additional gaugings which I thought necessary to establish the basis of computation for the flow of water. During this time the flow of water in the Aqueduct has varied from 128,000,000 to 200,000,000 gallons per day, and the surplus of water not necessary for the supply has been disposed of through the blow-off gates into Harlem river at Shaft 25. Gaugings were taken simultaneously at Croton Dam, Pocantico, Ardsley, South Yonkers Gate-house, special manhole at South Yonkers, Shaft 19⅝ and Shafts 25 and 26.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the recommendation was approved.

The Committee also recommended the adoption of the following resolution :

Resolved, That the resolution adopted on February 3 last, dispensing with the services of R. W. Creuzbaur, Draughtsman, is hereby reconsidered and rescinded ; and his resignation, herewith presented, is hereby accepted, to take effect from January 18, 1892.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, March 29, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—I have found it necessary, owing to the lay of the ground and to the quality of the material to be excavated, to increase the rubble masonry foundation for the engine-house at South Yonkers and possibly for that at Pocantico.

As the price bid has been given for the buildings complete according to the plans, I have asked Contractor Twiname to name a price for the additional work. He has offered to do the work for $6 per cubic yard of rubble masonry, including the necessary excavation and refilling, which is, in my opinion, reasonable. I propose to give him an order for the above-mentioned work, if, under clause H of the contract, his proposition meets with your approval.

I do not think that the additional amount of masonry required will exceed twenty-five (25) cubic yards at South Yonkers, and at Pocantico it will be very small, if any.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That authority is hereby given to the Chief Engineer to contract with John Twiname for the work above referred to ; and an appropriation of one hundred and fifty dollars is hereby made to cover the cost thereof.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Coldwell-Wilcox Co., for certain work in connection with the placing of additional grooves in the gate-house at Sodom Dam, amounting to three hundred and eighty-three dollars, is hereby approved and ordered certified to the Comptroller for payment ; and an appropriation of thirty-three dollars is hereby made, in addition to that of three hundred and fifty dollars made on December 2, 1891, to cover the cost thereof.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Coldwell-Wilcox Co., being for iron and shop work done in connection with the placing of addi-

tional grooves in the gate-house at Sodom Dam, amounting to three hundred and seventy-eight dollars and one cent, is hereby approved and ordered certified to the Comptroller for payment; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Coldwell-Wilcox Co., for work done in replacing a piece of broken machinery at the Bog Brook tunnel, amounting to one hundred and twenty-five dollars, is hereby approved and ordered certified to the Comptroller for payment; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of New Castle, N. Y., for the year 1891, amounting to eighteen dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the City of Yonkers, for the year 1891, amounting to five hundred and three dollars and ninety cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

On motion of Commissioner Scott, the minutes of stated meeting of March 16, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, April 6, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7814 to 7829, inclusive, amounting to $865.21; also of Voucher No. 7831, being estimate for work done by contractors, amounting to $11,663.82.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Washburn, Shaler & Washburn, being for two brass valves which form a part of the gate-house machinery at Reservoir "M," and which were not included in the contract drawings, amounting to sixty dollars, is hereby approved and ordered certified to the Comptroller for payment; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote:

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of P. J. Moran, being for repaving and replacing bridge-stones over the trench made for a drain from Shaft 31 of the New Aqueduct to the sewer in the centre of One Hundred and Forty-first street, and for raising top-stones of two sewer-basins and for casting one manhole cover on Convent avenue, to bring them to the grades established for the grounds at the One Hundred and Thirty-fifth street Gate-house, amounting to one hundred and sixty-eight dollars and fifty-nine cents, is hereby ap-

proved and ordered certified to the Comptroller for payment ; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bill for school taxes due the Town of Southeast, N. Y., District No. 11, amounting to seventeen dollars and four cents, is hereby approved and ordered certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Sullivan, Rider & Dougherty, for work performed in cleaning privy-vaults and removing other objectionable matter from the East Branch reservoirs, amounting to thirty-seven dollars and thirty-seven cents, is hereby approved and ordered certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Cannon—4.

The Committee also presented the following communication received from the Chief Engineer:

NEW YORK, April 4, 1892.

To the Honorable, the Committee on Construction :

GENTLEMEN—As the work on the Aqueduct is coming to a close it would be proper, in my judgment, to make some modifications in the location and importance of our field offices along the line.

1st. The work now going on in the upper divisions being near the northerly part of the line, I think it advisable to transfer the present Tarrytown office to Sing Sing. It would be more central for the Division Engineer who now retains charge of the Aqueduct work in the upper part of the line and who has to attend at the same time to the construction of the Titicus Dam.

I think that the quarters to be had at Sing Sing should be large enough to accommodate : 1st. The small force which is finishing the work on the Aqueduct. 2d. All the records of the upper divisions. 3d. All the machinery in the possession of the Aqueduct Commissioners. 4th. The three diamond drills, which will soon be out of commission and which may be used again during the construction of the Cornell Dam. 5th. At least two horses and the necessary vehicles used by the Division Engineer. 6th. It may be necessary to locate there the main office of the engineering force for Cornell Dam until such time as the Commissioners have erected buildings on the spot.

We can obtain a large house in Sing Sing for six (6) or twelve (12) months at a rate not exceeding $50 per month and probably less. The expense for the Janitor, heating, etc., would be the same as at Tarrytown. The rent now paid is $750 per year for the Tarrytown office. We have paid until now for an office in Sing Sing at the rate of $20 per month for the Engineer in charge of the drills and topographical work, and $5 a month for stable room at Sing Sing, in all $1,050 per year.

By the new arrangements $600 per year will meet all our wants. We shall have, of course, to meet the expenditure of moving.

Owing to the work now going on at shaft sites, we must keep for several months a few rooms in Yonkers, and I expect to be able to either keep in the same building one-half of the rooms that we now occupy or find some equivalent accommodation somewhere else in Yonkers. Our duplicate records for the lower part of the line could be kept in these rooms until further order.

The rent that we now pay in Yonkers is $708 per year, and will probably be reduced to about $480 per annum.

It is obvious that the Commissioners need not keep the house that they are now occupying at No. 324 St. Nicholas avenue. The owner has been notified to that effect some time ago. As we want some local headquarters to accommodate the engineering force in charge of the work at One Hundred and Thirty-fifth street, Shaft 25, and of the blow-off at Shaft 24, a small place would be desirable in the vicinity of the work.

I find that the proprietor of the High Bridge Hotel, from whom we rented a few rooms over his horse-sheds a few years ago for the accommodation of the work at Shafts 25 and 26, is ready to put them in order again, and to let the Commissioners have them at the rate of $20 per month. The yearly rent of the present office is $1,000. It requires the services of a Janitor, and the heating of the building costs in the neighborhood of $150 a year.

From the above you will see that the expected saving from the proposed arrangement would be not less than $1,800 a year.

As the owners of the various premises mentioned are waiting for an answer, I would request the Committee to take early action on the proposed changes which are recommended.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That the Chief Engineer be and he is hereby authorized and directed to make the necessary arrangements for carrying out the suggestions contained in the above communication, and the Secretary is hereby directed to prepare and have executed proper leases for such premises as may be rented in accordance with this resolution.

On motion of the Comptroller, the same was adopted.

The Committee also recommended the adoption of the following resolutions:

Resolved, That, upon the recommendation of the Chief Engineer, the services of Michael Fletcher, Fireman, and George Wilson, Helper, be and hereby are dispensed with, and they are hereby discharged from the service of the Aqueduct Commissioners.

Resolved, That the action of the Chief Engineer, in notifying the following-named laborers that their services would not be required after the dates hereinafter named, be and hereby is approved:

John Carpenter, after March 31, 1892.

Edward Sarles, after April 4, 1892.

H. Jones, after April 4, 1892.

On motion of Commissioner Tucker, the same were adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the resolution adopted on February 17 last, discharging J. N. Hayward Cornell, Leveler, from the service of the Aqueduct Commissioners, is hereby reconsidered and rescinded; and his resignation, herewith presented, is hereby accepted, to take effect as of October 22, 1890.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, the Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Philip J. Kiernan vs. The Mayor, Aldermen & Commonalty of the City of New York, for the sum of one thousand three hundred and sixty-three dollars; therefore,

Resolved, That a voucher be and hereby is ordered drawn in favor of Philip J. Kiernan for the sum of one thousand three hundred and sixty-three dollars, being amount of judgment rendered in favor of said Kiernan for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

The same was adopted by the following vote:

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Cannon—4.

The Committee of Finance and Audit reported their examination and audit of Voucher No. 7830, being judgment rendered in favor of Philip J. Kiernan for salary due him while employed as an Inspector of Masonry on the New Aqueduct, amounting to $1,363.

On motion of Commissioner Tucker, the same was approved and ordered certified to the Comptroller for payment.

The Secretary gave notice of the filing of a lien by Coldwell-Wilcox Company against David R. Paige & Co., for work done and materials furnished in the construction of Bog Brook Dam, amounting to $227.50.

On motion of Commissioner Cannon, the same was ordered filed.

The Comptroller, under date of March 31, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Sodom Dam	$2,318 50
Reservoir "D"	444 40

—and, under date of March 3, 1892, stating that bonds have been issued to the amount of $100,000; and further stating that the balance to the credit of Additional Water Fund is $30,582.61.

Which was ordered entered upon the books of the Commission and filed.

The Construction or Executive Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Sullivan, Rider & Dougherty, for work done in cutting stumps, which were not included in the contract for clearing the grounds of the East Branch Reservoir, and for labor furnished to the Engineers during the last six months for handling the water at the gate-houses, amounting to one hundred and five dollars and eighty-eight cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Cannon, the same was adopted.

On motion of Commissioner Cannon, the minutes of meetings of March 23 and 30, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Wednesday, April 13, 1892, at 3 o'clock, P. M.

Present—The Comptroller, and Commissioners Duane, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of Vouchers Nos. 7832 to 7837, inclusive, being estimates for work done by contractors, amounting to $8,936.99; also of bills contained in Vouchers Nos. 7838 to 7854, inclusive, amounting to $1,283.03.

On motion of Commissioner Cannon, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in discharging Gilbert Tompkins, Laborer, from the service of the Aqueduct Commissioners, on the 4th instant, and re-assigning Superintendent of Dam Construction, Thomas Graham, to duty on the 5th instant, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, April 12, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Two hundred and fifty feet more or less of additional fencing must be erected on the portion of the breast-wall at the Croton Gatehouse which is now being built by Contractor A. M. Newton.

I have, consequently, asked for bids from six firms who have before given us estimates on work of this kind.

Messrs. Edwards & Co. have declined to make a proposal, and the bids of the others are as follows:

1. John Fox	$2 50	per lineal foot.	Total,	$625 00
2. M. J. Drummond	3 00	"	"	750 00
3. John Rourke	3 04	"	"	760 00

4. Coldwell Wilcox Co..... $3 152 per lineal foot. Total, $798 00
5. Greenlie, Wyatt & Co ..... 3 80 " " 950 00

The bid of John Fox being the lowest, and under the Engineer's estimate, the award of the contract to him is hereby recommended.

The bids are herewith submitted.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the contract for doing the work above referred to is hereby awarded to John Fox at his bid of six hundred and twenty-five dollars, it being the lowest bid received and less than the estimate of the Chief Engineer.

On motion of Commissioner Scott, the same was adopted.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, April 20, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7857 to 7871, inclusive, amounting to $321.22.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in re-assigning Superintendents of Dam Construction Isaac S. Rossell and P. J. Moynihan to duty at the Carmel Dams, said re-assignments to date from April 12 and 13, 1892, respectively, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill of Edward Underhill, being for rent of room for housing one of the portable hoisting plants at Yonkers, N. Y., amounting to one hundred dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication received from H. T. Dykman, together with the statement therein referred to, and recommended that the same be spread in full on the minutes and filed:

WHITE PLAINS, N. Y., April 14, 1892.

J. C. LULLEY, Esq., *Secretary, etc.:*

DEAR SIR—I have the honor to transmit herewith a statement showing the amount claimed, amount awarded, and the reduction in such claims, matter of Double Reservoir "I," Putnam County, which I would respectfully request that you present to the Aqueduct Commission.

As you will see by the statement, the reduction in favor of the City, Double Reservoir "I," Putnam County, has been $518,554.95, exclusive of the favorable result to the City in the matter of the claim of the New York & New England Railroad Company.

Yours very truly,

H. T. DYKMAN.

New Aqueduct, Sodom Dam and Reservoirs. Cases before Commissioners of Appraisal.

CLAIMANT.	AMOUNT CLAIMED.	AWARD.	REDUCTION.
Armstrong	$47,000 00	$9,378 23	$37,621 77
Alford	1,877 00	765 00	1,112 00
Barnum, H. C	6,000 00	1,400 00	4,600 00
Barnum, E. C	7,450 00	3,450 00	4,000 00
Barnum, S. C	182,418 45	61,179 00	121,239 45
Boyce	42,500 00	9,620 00	32,880 00
Budd	20,533 25	6,010 00	14,068 65
Barnum, V. E	126 70	80 00	46 70
Brush, Administrator of	1,500 00	100 00	1,400 00
Birch, M	34,956 68	15,700 00	19,256 68
Birch, V	21,000 00	4,250 00	16,750 00
Conner	6,817 91	4,291 19	2,526 72
Crosby	12,000 00	4,804 13	7,195 87
Corlett	866 00	300 00	566 00
Cole	23,142 82	8,306 82	14,836 00
Crane	11,062 80	3,544 20	7,518 60
Doane	13,010 80	1,900 00	11,110 80
Dayton	3,178 00	1,500 00	1,678 00
Everett	19,367 85	8,012 50	11,355 35
Elwell	525 00	300 00	225 00
Foster, T. B	8,150 00	4,883 61	3,266 39
Foster, B. F	9,700 00	3,800 00	5,900 00
Foster, G. W	12,300 00	3,375 90	8,924 10
Fowler	2,532 00	1,296 50	1,235 50
Hall, G. W	6,000 00	3,500 00	2,500 00
"	3,000 00	1,500 00	1,500 00
Hoyt	27,500 00	9,600 00	17,900 00
Haviland	22,600 00	9,000 00	13,600 00
Hopkins	590 00	150 00	440 00
Hall, Executors of	2,439 60	900 00	1,539 60
Hanford	2,076 90	950 00	1,126 90

CLAIMANT.	AMOUNT CLAIMED.	AWARD.	REDUCTION.
Hadden	$5,503 55	$2,250 00	$3,253 55
Kelley, E. H	10,535 00	5,338 00	5,197 00
Kelly, John	3,009 75	950 00	2,059 75
Keeler	273 65	150 00	123 65
Kinner, Seth M., Estate of	2,000 00	2,000 00	.....
Lefferts	615 00	210 00	365 00
Martin	16,500 00	6,000 00	10,500 00
Minor	5,367 00	2,300 00	3,067 00
Murlock	2,051 20	1,001 25	1,049 95
Nelson	1,200 00	500 00	700 00
O'Connor	10,355 00	5,850 00	4,505 00
Paddock, H	15,664 35	9,199 00	6,465 35
Paddock, W. S	28,751 56	12,260 00	16,451 56
Paddock, S. E	5,020 25	2,425 00	2,595 25
Richards	9,726 20	5,050 00	4,676 20
Sears, F. B	3,000 00	600 00	2,400 00
Sears, D. R	13,950 00	6,625 00	7,325 00
Sherwood, No. 70	10,000 00	3,500 00	6,500 00
" No. 72	10,000 00	3,400 00	6,600 00
Stevens	9 286 85	6,300 00	2,986 85
Storm, W. A	23,000 00	21,231 14	1,768 86
"	1,350 00	900 00	450 00
Silk	1,100 00	400 00	700 00
Sears, G. E	383 80	171 00	212 80
Townsend	2,000 00	637 50	1,352 50
Yale, L. M	76,152 50	17,977 50	58,175 00
Yale, J. R	1,000 00	350 00	650 00
	$820,017 42	$301,462 47	$518,554 95

On motion of Commissioner Scott, the recommendation was approved.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Pierrepont Bartow vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of seven hundred and thirty-one dollars and twenty-five cents; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Pierrepont Bartow for the sum of seven hundred and thirty-one dollars and twenty-five cents, being amount of judgment

rendered in favor of said Bartow for salary due him while employed as an Assistant Draughtsman on the New Aqueduct, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative— Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Daniel F. Leary vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of eight hundred and nine dollars and forty cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Daniel F. Leary for the sum of eight hundred and nine dollars and forty cents, being amount of judgment rendered in favor of said Leary for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Joseph Johnstone vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of one hundred and twenty-four dollars and eighty cents ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of Joseph Johnstone for the sum of one hundred and twenty-four dollars and eighty cents, being amount of judgment rendered in favor of said Johnstone for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled John T. Havanagh vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of eight hundred and fifty dollars ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of John T. Havanagh for the sum of eight hundred and fifty dollars, being amount of judgment rendered in favor of said Havanagh for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee of Finance and Audit reported their examination and audit of vouchers Nos. 7872 to 7875, inclusive, amounting to $2.515.45, being judgments rendered in favor of certain persons for salary due them while employed on the New Aqueduct.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Secretary gave notice of the filing of a lien by Otis & Gorsline against John M. Waddle, contractor, and John F. Gaynor, assignee, for materials furnished in the construction of a blow-off at Shaft No. 24 of the New Aqueduct, amounting to $111.28.

Which was ordered filed.

On motion of Commissioner Tucker, the minutes of stated meeting of April 6, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, May 4, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7882 to 7899, inclusive, amounting to $3,578.01.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, April 25, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Since my last report, dated the 19th instant, the daily supply of 20,000,000 gallons has been drawn from the Bog Brook Reservoir.

The elevation of the water surface in the Sodom Reservoir was, on the 23d instant, at 413.55, and the elevation in the Bog Brook Reservoir was at 411.75, i. e., 42.75 feet above the bottom of the lower pipe.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, May 3, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Since my last report, dated the 19th instant, the daily supply to the river from the Bog Brook Reservoir has continued at the rate of 20,000,000 gallons. The water surface of the Reservoir is now at elevation 412.60, i. e., 43.60 feet above the top of the lower pipe. The elevation of the water in Sodom Reservoir is 412.80.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Superintendent of Dam Construction A. J. Sparrow to duty at the Carmel Dams, on April 26, 1892, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in employing John D. Hoffman as Laborer in the Engineer Corps at Carmel, N. Y., on April 29, 1892, at two dollars per day, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer, in assigning Superintendent of Dam Construction Gerald McMurray to duty at Carmel, N. Y., on April 19, 1892, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer, in employing Edward J. Dougherty as Laborer on Division 4, on the 19th instant, at two dollars per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, a leave of absence for six months, from May 10, 1892, without pay, is hereby granted to Assistant Engineer L. P. De Luze, and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, Assistant Engineer B. R. Value, on leave of absence without pay, be and hereby is reassigned to duty.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, April 25, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Mr. Stephen Whisten, Jr., a former Inspector, was engaged by me under the general authority given to the Chief Engineer to employ temporary labor for the purpose of giving me certain information in regard to his former work, which I required for my reports to counsel in the litigation for Section No. 6.

Mr. Whisten performed the work required at my request, and I submit that, in accordance with the request of the Comptroller, you authorize my action by resolution.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer, in employing Stephen Whisten, Jr., for the purpose of giving certain information in regard to work done under his direction as Inspector of Masonry on Section 6 of the New Croton Aqueduct, as required by the counsel for the City of New York in the litigation arising out of an action brought by the contractors for said section against the City, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of Mount Pleasant, N. Y., amounting to eleven dollars and thirty-five cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of Mount Pleasant, N. Y., amounting to thirty dollars and ninety-six cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Comptroller, under the date of April 30, 1892, gave notice of the issue of warrants for vouchers not certified to by the Aqueduct Commissioners for

Reservoir "D"	$879 27
Reservoir "M"	4,811 34
Sodom Dam and Reservoirs	468 28
Cornell Dam	419 75
H. T. Dykman, services	6,725 56
—leaving a balance to the credit of	
Additional Water Fund of	25,670 94

Also stating that on April 8, 1892, bonds were issued to the amount of $50,000.

Which were ordered entered upon the books of the Commission and filed.

On motion of Commissioner Tucker, the minutes of stated meeting of April 13, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

NOTE.—On Wednesday, May 11, 1892, at 3 o'clock P. M., Commissioners Duane, Tucker, Scott and Cannon were present; and, on motion of Commissioner Scott, the stated meeting was adjourned to Thursday, May 12, 1892, at 4 o'clock P. M.

J. C. LULLEY, Secretary.

Minutes of Adjourned Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Thursday, May 12, 1892, at 4 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, May 9, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated the 3d instant, the daily supply to the river from the Bog Brook Reservoir has continued at the rate of 20,000,000 gallons. The water surface of the reservoir is now at elevation 412.68, i. e., 43.68 feet above the top of the lower pipe. The elevation of the water in Sodom Reservoir is 412.75.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the recommendation was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Superintendent of Dam Construction Patrick Daly to duty on the 9th instant, under Division Engineer McCulloh, at Brewster, N. Y., be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, May 10, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Pursuant to your instructions, I have asked for and have received the four accompanying bids for building a temporary fence between One Hundred and Seventy-ninth and One Hundred and Eightieth streets, in the vicinity of Shaft 26.

The fence to be constructed will not exceed 210 lineal feet in length. The names of the bidders and the amounts bid are as follows, viz. :

Names of Bidders.	Price per Lineal Foot.	Amount of Bid for 210 Feet
1. John Twiname	35 cents.	$73 50
2. P. J. Moran	48 "	100 80
3. William Dougherty	60 "	126 00
4. Charles A. May	65⅔ "	137 90

As the bid of John Twiname is the lowest and a reasonable one, I would recommend that the work be awarded to him.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the work of building a temporary fence between One Hundred and Seventy-ninth and One Hundred and Eightieth streets, New York City, in the vicinity of Shaft No. 26 of the New Aqueduct, is hereby awarded to John Twiname at his bid of $73.50, it being the lowest bid received for doing said work.

On motion of Commissioner Scott, the same was adopted.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7903 to 7917, inclusive, and Nos. 7932 to 7934, inclusive, amounting to $874.15 ; also of Vouchers Nos. 7918 to 7931, inclusive, being estimates for work done by contractors, amounting to $44,783.18.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, it was decided that when the Commissioners adjourn, they adjourn to meet to-morrow, the 13th instant, at 4 o'clock P. M.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

NOTE. - On Friday, May 13, 1892, at 4 o'clock P. M., Commissioners Duane, Tucker and Scott were in attendance ; and, in the absence of a quorum, the meeting was adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Special Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Tuesday, May 17, 1892, at 4 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee presented the following:

The Construction or Executive Committee submit herewith form of contract, specifications and bond, received from the Commissioner of Public Works, on the 16th day of May, 1892, to provide for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, and recommend the adoption of the following resolutions:

Resolved, That the form of contract, specifications and bond, submitted by the Commissioner of Public Works, on the 16th day of May, 1892, and approved by the Counsel to the Corporation "as to form," for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, be and the same are hereby approved and adopted; and the Secretary is hereby directed to have triplicate copies thereof prepared for certification by the Aqueduct Commissioners and filed in accordance with section 25, chapter 490, Laws of 1883.

Resolved, That the President and Secretary be and they are hereby authorized and directed to publish in the following papers, published in the City of New York, the notice and advertisement for sealed bids or proposals for doing the work and furnishing the materials for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, as called for in the form of contract approved by the Aqueduct Commissioners, on May 17, 1892.

The CITY RECORD.	The Staats Zeitung.
The Herald.	The Daily News.
The World.	The Mail and Express.
The Times.	The Commercial Advertiser.
The Tribune.	The Evening Post.
The Sun.	The Evening Sun.
The Morning Advertiser.	The Evening World.
The Morning Journal.	The Telegram.

The Press. Engineering News.
The Recorder. Engineering Record.

The Comptroller stated that he protested against the construction of the proposed Dam, and moved that the report of the Committee and the subject-matter thereof be laid on the table until the return of the Mayor to the city.

In reply to a question by Commissioner Scott as to whether such motion was made at the request or suggestion of the Mayor, the Comptroller stated that it was not.

After discussion, the motion to lay on the table was lost by the following vote :

Affirmative—The Comptroller—1.

Negative—Commissioners Duane, Tucker, Scott, and Cannon—4.

The resolutions were then adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott, and Cannon—4.

The Comptroller not voting.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, May 18, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of Voucher No. 7936, being estimate for work done by contractors, amounting to $1,482.30; also of bills contained in Vouchers Nos. 7937 to 7950, inclusive, amounting to $645.13; also of Voucher No. 7951, being judgment in favor of Ellen Malone, administratrix, etc., of Christopher B. Malone, late Inspector of Masonry, amounting to $144.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, May 17, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated the 9th instant, the daily supply to the river from the Bog Brook Reservoir has continued at the rate of 20,000,000 gallons. The water surface of the reservoir is now at elevation 412.59, i. e., 43.59 feet above the top of the lower pipe. The elevation of the water in Sodom Reservoir is 412.68.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Peter Denning to duty as Laborer at the Titicus Dam, on the 10th instant, at $2 per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, In the opinion of the Aqueduct Commissioners, the further sum of five hundred thousand dollars will be required to defray the necessary and lawful expenditures of said Commissioners; now, therefore, be it

Resolved, That the Comptroller of the City of New York be and he is hereby requested to raise the sum of five hundred thousand dollars upon bonds of the City of New York, in conformity with the requirements of section 32, chapter 490, Laws of 1883, of the State of New York, for the uses and purposes of the Aqueduct Commissioners, as set forth in said chapter and section of said law.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, May 16, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN--The inclosed communication of Messrs. Sullivan, Rider & Dougherty, contractors for the East Branch reservoir dam, has been directed to the President of the Aqueduct Commissioners, and by him referred to me for report.

The facts as to the repeated delays in this work are well known to your Committee. The statements contained in the contractors' letter are true, and under the circumstances I believe it would be for the interests of the City to grant to Messrs. Sullivan, Rider & Dougherty the extension applied for.

You know that the work remaining to be done does not practically affect the service of the water supply, which has been maintained continuously from the East Branch reservoir for more than a year.

The amount of money in the hands of the Commissioners and retained from the approximate estimates for that work amount to $32,208.34.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following preamble and resolution :

Whereas, Application has been made by Sullivan, Rider & Dougherty, contractors, for an extension of time for the completion of their contract for constructing a dam and other work on the east branch of the Croton river, in Putnam County, New York, and the Chief Engineer having recommended that such extension of time be granted ; therefore,

Resolved, That the Aqueduct Commissioners hereby grant to Sullivan, Rider & Dougherty, contractors, an extension of time to September 1, 1892, in which to complete the contract above referred to, providing their bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to them as further time for the performance of said contract ; and provided also that said contractors will take, at their own expense, all precautions for doing the work in cold weather as may be ordered by the Engineer, and that they will waive all claims for damages whatsoever on account of any raising or lowering of the water in the reservoir

that the Commissioners or their Engineer may order, or from such injury or damage as may be caused by the action of the elements; and provided also that if any damage is done to their work by such cause, they will waive all claim for compensation on account of damage, loss of time, or on account of other losses which they may incur from the raising of said water; and provided also that they will take, at their own expense, such precautions for protecting the gates at said dam, by boxing or otherwise, as may be ordered by the Engineer.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled, Ellen Malone, as the administratrix, etc., of Christopher B. Malone, vs. The Mayor, Aldermen and Commonalty of the City of New York for the sum of $144; therefore,

Resolved, That a voucher be and hereby is ordered drawn in favor of Ellen Malone, administratrix, etc., of Christopher B. Malone, for the sum of $144, being amount of judgment rendered in favor of said Malone for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, May 25, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7952 to 7962, and 7964, amounting to $985.61; also of Voucher No. 7963, being judgment in favor of Francis T. Flood for salary due him while employed as an Inspector of Masonry on the New Aqueduct, amounting to $200.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, May 24, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated the 17th instant, the daily supply to the river from the Bog Brook reservoir has continued at the rate of 20,000,000 gallons. The water surface of the reservoir was, on the 21st instant, at elevation 412.85, i. e., 43.85 feet above the top of the lower pipe, and the elevation of the water surface in the Sodom reservoir was 412.97 feet. It is expected that the recent rains will increase the depth of water in these reservoirs.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, permission is hereby given to Edgar M. Smith to be examined by the Municipal Civil Service Boards for promotion from the position of Laborer to that of Rodman in the Engineer Corps.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Superintendent of Dam Construction A. J. Sparrow to duty at the Carmel Dams, on April 26, 1892, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in employing John D. Hoffman as Laborer in the Engineer Corps at Carmel, N. Y., on April 29, 1892, at two dollars per day, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer, in assigning Superintendent of Dam Construction Gerald McMurray to duty at Carmel, N. Y., on April 19, 1892, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer, in employing Edward J. Dougherty as Laborer on Division 4, on the 19th instant, at two dollars per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, a leave of absence for six months, from May 10, 1892, without pay, is hereby granted to Assistant Engineer L. P. De Luze, and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, Assistant Engineer B. R. Value, on leave of absence without pay, be and hereby is reassigned to duty.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, April 25, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Mr. Stephen Whisten, Jr., a former Inspector, was engaged by me under the general authority given to the Chief Engineer to employ temporary labor for the purpose of giving me certain information in regard to his former work, which I required for my reports to counsel in the litigation for Section No. 6.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment in an action entitled Francis T. Flood vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of two hundred dollars ; therefore,

Resolved, That a voucher be and hereby is ordered drawn in favor of Francis T. Flood for the sum of two hundred dollars, being amount of judgment rendered in favor of said Flood for salary due him while employed as an Inspector of Masonry on the New Aqueduct, and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

On motion of Commissioner Tucker, the minutes of meetings of April 20, May 4 and 12, 1892, were ordered approved.

The Commissioners then adiourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, June 1, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7971 to 7981, inclusive, amounting to $533.78.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, May 31, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Since my last report, dated the 24th instant, viz. : on the 27th instant, the flow in both the Bog Brook and Sodom Reservoirs reached elevation 415, which is the flow line.

Both reservoirs are now full for the first time this year, and the daily supply to the river is the waste over the spillway.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, an appropriation of $135 is hereby made to cover the cost of printing two hundred copies of the map of the Croton water-shed, made by W. E. Worthen, Civil Engineer.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, June 1, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—For the work of furnishing iron doors for the East Branch Reservoir, put in place, painted, etc., I herewith submit four bids, as follows:

Name of Bidder.	Amount Bid.
New Jersey Foundry and Machine Company	$360 00
Coldwell, Wilcox & Co	374 00
John Fox	450 00
John F. Rourke	530 00
M. J. Drummond	560 00

Messrs. Sullivan, Rider and Dougherty were asked to bid on this work, but no bid from them has been received.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That the bid of the New Jersey Foundry and Machine Company, amounting to $360, for furnishing, putting in place, painting, etc., iron doors for the East Branch Reservoir, is hereby accepted, it being the lowest bid received for doing said work, and the Chief Engineer is hereby authorized to have said work done.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, Application has been made by Levy & Quinn, contractors, for grading, improving and fencing the grounds at several of the shafts of the New Croton Aqueduct, for an extension of time to October 1, 1892, in which to complete said work, and the Chief Engineer having recommended that such extension of time be granted, therefore,

Resolved, That the Aqueduct Commissioners hereby grant to Levy & Quinn, contractors, an extension of time to October 1, 1892, in which to complete the contract above referred to, providing their bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to them as further time for the performance of said contract.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, Application has been made by John F. Gaynor, assignee of John M. Waddle, contractor, for building the blow-off at Shaft No. 24, on Section No. 11A of the New Aqueduct, for an extension of time to August 1, 1892, in which to complete said work, and the Chief Engineer having recommended that such extension of time be granted; therefore

Resolved, That the Aqueduct Commissioners hereby grant to John F. Gaynor, assignee of John M. Waddle, contractor, for building the blow-off at Shaft No. 24, on Section No. 11A of the New

Aqueduct, an extension of time to August 1, 1892, in which to complete said work, providing his bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to him as further time for the performance of said contract.

On motion of Commissioner Cannon, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of Greenburgh, N. Y., amounting to $105.55, be and hereby is approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following statement received from Mr. H. T. Dykman, showing the names of claimants, amounts claimed and amounts awarded in the matter of the Westchester County Section of the New Aqueduct:

CLAIMANT.	AMOUNT CLAIMED.	AWARD.
Margaret Sidebotham	$17,000 00	$1,680 00
Henrietta Le Moyne	.....	1,441 00
Benjamin Odell	11,700 00	1,394 00
James Pyle	21,500 00	7,283 00
James N. Tompkins	10,000 00	398 00
Aristidez Martinez and another	3,000 00	402 00
Daniel Springsteel	1,000 00	350 00
William H. Webb	73,700 00	6,615 00
James S. Bayles and others	12,500 00	3,278 00
Orlando B. Potter	7,500 00	2,105 00
John Whitson	9,000 00	3,002 00
Stephen L. Washburn	800 00	150 00
Catharine Acker and others	2,500 00	850 00
Richard P. Barnes	7,294 00	1,453 00
Willet Ryder	1,000 00	482 00
Mary E. L. Young	8,900 00	1,565 00
Ezekiel W. Hoag	8,550 00	1,357 00
Mary J. Horton	1,600 00	770 00
Elizabeth Flewellin	600 00	369 00
John J. Tait	1,250 00	354 00
Fernando Wood	2,000 00	496 00
Daniel Halstead	2,000 00	565 00

CLAIMANT.	AMOUNT CLAIMED.	AWARD.
Thomas J. Bushel	$5,400 00	$2,050 00
Jacob Acker	1,500 00	350 00
Susan Acker	200 00	200 00
Catharine Bailey	225 00	.....
Oscar S. Bailey	1,000 00	.....
Peter Donald, No. 1	8,000 00	1,200 00
Peter Donald, No. 2	7,000 00	1,500 00
Seth Fisher	221 90	150 00
Ed. M. LeMoyne and others	15,000 00	1,000 00
Bridget Murray	2,000 00	100 00
New York and Northern Railway Company	1,124 75	1,124 75
O'Brien & Clark	1,250 00	.....
Mary M. Ryder	500 00	.....
Village of Tarrytown and another	6,000 00	.....
Abraham H. Washburn and others	1,000 00	250 00
James L. Wheeler	6,000 00	750 00
Mount Hope Cemetery Association	1,800 00	.....
" " No. 2	10,000 00	1,300 00
S. F. Kneeland and another	Not stated.	1,363 50
P. U. Fowler and another	18,174 20	3,794 00
Robert Knight	Not stated.	61 00
William Pringle	1,000 00	685 00
Thomas A. Corlett	1,200 00	400 00
James Lynt	10,400 00	1,767 00
Myretta Edwards and others	750 00	150 00
Caroline E. Cudney	1,500 00	625 00
John Nalty	500 00	375 75
Isaac Losee and another	500 00	71 50
John Buckhout	1,135 00	456 25
August C. Bechstem	400 00	85 00
David Humphreys, etc.	2,500 00	250 00
Emma F. Travis	1,050 00	808 00
Ann A. B. Cobb	2,250 00	1,020 00
John Webber	4,500 00	1,620 00
Home Insurance Company	5,700 00	1,085 00
Clarence S. Davison	1,000 00	375 00
George D. Arthur	5,000 00	1,500 00
Carolme M. Beatty	1,000 00	250 00

CLAIMANT.	AMOUNT CLAIMED.	AWARD.
James Conkling	$300 00	$145 00
Julia M. Curtin	300 00	50 00
Jemima S. Davis	250 00	50 00
Gilbert T. Davis	500 00	50 00
Elias Q. Griffin, etc	800 00	300 00
James T. Law	8,000 00	2,000 00
Glenville Methodist Episcopal Church	500 00	215 00
Lewis Roberts	5,000 00	1,800 00
Stephen J. Sackett	200 00	50 00
Fannie L. See	250 00	145 00
Georgianna See	Not stated.	125 00
Isaac Vincent	500 00	180 00
Margaret Wilson	600 00	300 00
Emily C. Palmer, etc	637 50	192 48
Town of Yorktown	850 00	550 00
Stephen B. Lawrence, etc	250 00	140 00
Town of Ossining	5,000 00	.....
Village of Sing Sing	3,000 00	.....
Warren Bailey and others	1,000 00	400 00
Michael Garvey	1,000 00	100 00
William Crosby	500 00	.....
Benjamin A. See	1,000 00	750 00
John H. Cheever	2,000 00	592 00
Charles Runyon	58,000 00	3,500 00
James G. Powers	24,000 00	1,550 00
Edward F. Brown	5,000 00	379 00
Francis Larkin, No. 1	1,250 00	.....
Hiram Farrington	4,000 00	.....
Franklin H. Titlar	1,000 00	438 00
Eliza D. Vail and another	500 00	58 00
William H. Varian	2,000 00	513 00
Henry Drisler	Not stated.	.....
Daniel D. Mangam	5,000 00	.....
Francis Larkin, No. 2	2,000 00	.....
Maria J. McLarney	Not stated.	204 00
Martha J. Ward	12,000 00	3,400 00
	$476,712 35	$81,252 23

The Secretary presented an abstract of trial balance, showing the expenditures of the Aqueduct Commission from its inception to April 1, 1892.

On motion of Commissioner Scott, the same was received and ordered spread in full on the minutes, as follows:

Abstract of Trial Balance to April 1, 1892.

Commissioners' Office.		
Salaries of Commissioners	$209,601 99	
Salaries of Secretary and Employees	117,108 42	
Stationery	3,333 16	
Furniture and fixtures	3,176 46	
Rent	33,903 10	
Incidental expenses	5,780 47	
Books, maps and drawings	337 10	
Traveling expenses	1,463 26	
Advertising	19,777 44	
Stenographic reports	4,334 29	
		$398,815 69
Chief Engineer's Office.		
Salaries of Engineers, etc	$444,083 54	
Stationery	6,172 75	
Furniture and fixtures	4,318 54	
Rent	39,100 65	
Incidental expenses	6,848 83	
Books, maps and drawings	19,765 87	
Consulting Engineer's fees	100 00	
Drawing instruments, tables and materials	4,032 87	
Testing machines and tests	8,211 81	
		532,634 86
Tarrytown Office.		
Salaries of Engineers	$57,692 24	
Stationery	1,180 41	
Furniture and fixtures	750 25	
Rent	6,600 00	
Incidental expenses	4,030 36	
Books, maps and drawings	92 81	
Drawing instruments, tables and materials	1,127 78	
Laborers on the line	2,703 17	
Drivers and Laborers	19,989 03	

Field instruments and implements	$8,776 99	
Traveling expenses	4,081 33	
Harness and stable fittings	2,046 20	
Maintenance—Horses and wagons	11,143 32	
Horses	3,573 00	
Wagons	1,518 00	
Hire of horses and wagons	1,537 75	
		$126,842 64
Division Engineers.		
Salaries of Engineers and Laborers, old account	$154,834 84	
" " new account	1,337,322 90	
Stationery	6,062 07	
Furniture and fixtures	4,525 13	
Rent	24,029 33	
Incidental expenses	11,748 74	
Books, maps and drawings	51 99	
Drawing instruments, tables and materials	2,927 00	
Field instruments and implements	17,779 54	
Traveling expenses	6,584 66	
Harness and stable fittings	1,592 68	
Maintenance—Horses and wagons	13,482 51	
Horses	2,100 00	
Wagons	1,971 00	
Heating headquarters	8,757 23	
Hire of horses and wagons	726 50	
Testing machines and tests	2,942 71	
Laborers on the line	15 75	
Auxiliary offices	3,498 62	
		1,600,953 20
Croton Lake Survey.		
Salaries of Engineers and Laborers	$39,620 04	
Incidental expenses	74 89	
Field instruments and implements	583 16	
Traveling expenses	340 92	
Hire of horses and wagons	130 25	
Maintenance—Horses and wagons	51 60	
Rent	24 00	
Harness and stable fittings	45	
Drawing instruments, tables and materials	1 00	
		40,826 31

New Reservoir Survey.		
Salaries of Engineers and Laborers	$9,588 00	
Drawing instruments, tables and materials	25 68	
Field instruments and implements	434 31	
Furniture and fixtures	6 38	
Traveling expenses	8 54	
Stationery	3 91	
Incidental expenses	52 06	
		$10,118 88
Sodom Dam Survey.		
Salaries, Engineers and Laborers	$7,072 68	
Maintenance—Horses and wagons	2 00	
Field instruments and implements	86 49	
Hire of horses and wagons	50 75	
Incidental expenses	44 98	
Stationery	1 50	
Traveling expenses	47 10	
		7,305 50
Surveying Dam Sites.		
Salaries of Engineers and Laborers	$30,287 12	
Stationery	33 30	
Hire of horses and wagons	102 00	
Field instruments and implements	103 75	
Heating headquarters	6 93	
Furniture and fixtures	37 50	
Traveling expenses	624 80	
Drawing instruments, tables and materials	7 80	
Incidental expenses	725 84	
Maintenance—Horses and wagons	773 95	
Rent	745 38	
Books, maps and drawings	8 00	
		33,456 37
Principal Assistant Engineer, New York Office.		
Heating headquarters	$9 25	
Stationery	59 06	
Furniture and fixtures	36 24	
Incidental expenses	53 36	
		157 91
Aqueduct Commissioners' Report, 1883–1887	.....	8,901 51
Engraving and printing	.....	24,408 93

Reports of Engineers and Aqueduct Commissioners on Quaker Bridge Dam	.....	$1,473 16
Reports of Engineers on High Masonry Dam	.....	490 75
Construction damages	$669 50	
Claims for damages	2,438 50	
		3,108 00
Taxes on lands	.....	9,236 11
Land Agents	.....	1,168 65
Diamond rock boring drills	$148,442 91	
Diamond rock borings	7,077 42	
		155,520 33
Monumenting the line	$3,712 98	
Monumenting Sodom Dam Survey	1,546 72	
Monumenting Aqueduct Tunnel—Division Engineer	143 72	
		5,403 42
Models	.....	1,335 43
Observatory towers	.....	1,805 95
Judgments	.....	17,616 39
Land and land damages	.....	57,869 82
Examination of ventilation and lighting	.....	1,306 36
Examining Engineers	.....	11,041 82
Board of Experts, etc., Quaker Bridge Dam	.....	12,550 00
Experts examining construction work	.....	11,926 16
Experts on water-gates and other machinery	.....	210 00
Inspection of cast-iron pipes, etc	.....	8,401 48
East Branch Reservoir—Incidental expenses	.....	165 00

Contracts.

SECTION.	ESTIMATE.	CONTRACTOR.		
1	Final.	Smith & Brown	$649,964 62	
2	"	Brown, Howard & Co	2,493,664 38	
3	"	"	1,838,247 04	
4	"	"	1,807,819 50	
5	"	"	812,370 91	
6	"	O'Brien & Clark	748,852 97	
7	"	"	1,777,610 99	
8	"	"	1,454,157 36	
9	"	"	1,921,087 67	
B	"	Heman Clark	1,513,279 76	

SECTION.	ESTIMATE.	CONTRACTOR.	
A	Final.	Heman Clark	$1,105,778 60
12	"	Chas. Peterson, assignee of O'Brien & Clark	541,923 04
13	"	John Brunton & Co	427,641 42
14	"	"	647,869 75
15	"	Richard A. Malone	156,358 20
15½	"	Robert Hanna & Co	27,416 82
16	"	O'Brien & Clark	1,013,220 54
17	"	Richard J. Malone	37,621 69
East Branch Reservoir Dam	....	Sullivan, Rider and Dougherty	369,418 10
Dams 1 and 2, and adjacent tunnel	....	David R. Paige & Co	272,760 65
Deepening and finishing Shaft No. 24	Final.	O'Brien & Clark	91,904 59
Iron-lined masonry Aqueduct, near Shaft 30	"	Breuchaud, Pennell & Co	69,369 20
Stop-cock valves, etc., on Section 15	"	Coldwell, Wilcox & Co	19,649 53
Gate-house superstructure, etc., at Pocantico	"	John Peirce	21,717 92
Shaft 13A, Section 7	"	O'Brien & Clark	22,963 40
" 13½, " 7	"	"	18,093 69
" 15½, " 7	"	John A. Lee	15,412 90
One Hundred and Thirty-fifth Street Gate-house doors, windows, etc., Section 15	"	Charles W. Palmer	6,935 00
Cast-iron work, wrought-iron work, etc., New Croton Gate-house, Section 1	"	Coldwell, Wilcox & Co	16,057 02
Highways or roads, etc., at East Branch and Bog Brook Reservoirs	"	Clinton Stephens	90,851 69
Gate-house superstructure walls for Blow-off Chamber at Ardsley, Section 7	"	O'Brien & Clark	4,900 00
Cutting timber and clearing grounds, East Branch and Bog Brook Reservoirs	"	Pennell & O'Hern	8,975 00
22.2' x 5' sluice-gates, etc., Sections 15 and 17	"	John Fox	14,190 00
3' x 4' sluice-gates, etc., Pocantico, Ardsley and South Yonkers Gate-houses, Sections 4, 7 and 9	"	"	6,750 00
3' x 6' sluice-gates, etc., New Croton Gate-house, Section 1	"	"	21,900 00
Earth and masonry dam, Reservoir M, on Titicus river, near Purdy's Station	....	Washburn, Shaler & Washburn	261,298 90
Gate-house superstructure at South Yonkers, Section 9	Final.	O'Brien & Clark	20,349 79
Gate-house superstructure, etc., for new gate chambers at Croton Dam, Section 1	....	Smith, Brown & Coleman	39,708 90
Combined stationery hoisting engines, etc., for Shaft 25, Section 12	Final.	Charles Peterson	11,250 00
Two pairs horizontal tubular boilers, etc., Shaft 25, Section 12	"	West Point Manufacturing Company	11,900 00
Earth and masonry dam, Reservoir D	....	Michael S. Coleman	42,111 64
Auxiliary earth and masonry dam, near Craft's Station, Reservoir D	....	"	33,283 57
Eleven head-house — Superstructures, etc., for the shafts	Final.	Breuchaud, Pennell & Co	40,251 28

SECTION.	ESTIMATE.	CONTRACTOR.		
Blow-off Shaft 24, Section A.....	....	John M. Waddle.....	$1,644 91	
" 24, " A.....	....	John F. Gaynor, assignee of John M. Waddle.....	8,228 76	
Two complete portable hoisting plants.....	Final.	West Point Manufacturing Company..	7,800 00	
Highway, retaining-walls, appurtenances, etc., Croton Dam....	....	Augustine M. Newton.....	10,280 54	
Grading, improving and fencing grounds, One Hundred and Thirty-fifth Street Gate-house	....	Peter J. Moran.....	2,198 16	
Grading, improving and fencing grounds at several of the shafts	....	Hyman Levy and Thomas Quinn.....	1,403 79	
				$20,538,444 19

Agreements.

SECTION.	ESTIMATE.	CONTRACTOR.	
Shaft 11C, Section 5.....	Final.	Brown, Howard & Co.....	$5,000 00
" 12C, " 6.....	"	O'Brien & Clark.....	5,000 00
" 16½, " 8.....	"	"	5,000 00
" 18½, " 9.....	"	"	5,000 00
" 19½, " B.....	"	Heman Clark	5,000 00
Culvert at Shaft 19, Section 9.....	"	O'Brien & Clark.....	4,893 74
" 20, " B	"	Heman Clark.....	2,932 05
" 23, " A.....	"	O'Brien & Clark.....	3,208 86
Crib dock, near Shaft 25, Section 12..	"	Charles Peterson	3,694 60
Ironwork—For Saw Mill river blow-off, etc., Section 7.....	"	Coldwell, Wilcox & Co.....	1,962 57
Ironwork—For Pocantico blow-off, etc., Section 4	"	"	144 11
Ironwork—For Tibbett's Brook blow-off, etc., Section 9.....	"	"	144 11
Ironwork—For lining Shafts 22 to 23, Section A	"	"	3,463 43
Ironwork—Lining Shaft 20, Section B.	"	"	2,663 28
" " 28, " 13	"	"	2,315 02
" " 29, " 14	"	"	2,358 57
" " 24, " A	"	The McNeal Pipe and Foundry Co....	987 32
Cast and wrought iron ladders for shafts, Sections 1 to 9 and B and A.....	"	Coldwell, Wilcox & Co.....	2,824 25
Roof, iron floor plates, etc., at Ardsley Gate-house, Section 7.	"	"	3,326 70
Cast-iron special pipe lining and manhole covers, etc., Shaft 24, Section A	"	"	4,931 19
Filling low ground, Shaft Site No. 12, Section 6.....	"	O'Brien & Clark.....	4,910 00
Cave-in, Shaft 13, Section 7.....	"	"	5,000 00
Laying 20" pipe along the incline adjacent to Shaft 24, Section A.	"	"	2,895 83
Grouting near Shaft 17½, on Section 8	"	"	4,427 50
Grouting, Stations 778+00 and 779+30, Section 7.....	"	"	1,075 00
Grouting on Section 13.....	"	Rogers, Shanly & Co.....	5,000 00

SECTION.	ESTIMATE.	CONTRACTOR.		
Grouting near Shaft 30	Final.	Breuchaud, Pennell & Co.	$2,900 93	
Shaft 17½, Section 8	"	Thomas O'Hern	2,222 12	
Highway, trestle-work and bridges at Croton Dam, Section 1	"	Smith & Brown	4,500 00	
Sodding the South Yonkers embankment on Section 9	"	Rider & Dougherty	1,575 57	
Taking down and enlarging top of Shaft 11C, Section 5	"	C. L. Kalmbach	2,917 32	
Walls, foundations, etc., near blow-off chamber, Shaft 25, Section 12	"	Charles Peterson	2,233 12	
Frame head-house and engine-room at Shaft 25, Section 12	"	"	3,690 00	
Frame boiler-house and coal bin at Shaft 25, Section 12	"	"	3,635 00	
9" anti-friction pump and improved turbine wheel, etc., Croton Dam Gate-house, Section 1	"	Joseph Edwards & Co.	2,135 00	
6.2' x 5' sluice-gates at Bog Brook and Sodom Dams	"	John Fox	4,200 00	
Pivot gate, Bog Brook Dams 1 and 2	"	Coldwell, Wilcox & Co.	2,445 00	
Finishing Shaft 21	"	William H. Baker	1,660 81	
				$122,273 00

Bailing, pumping and taking care of water on Section A	$1,309 50	
Pumping water in iron pipes, Section 12	6,068 65	
" " 13	5,405 00	
" " 14	7,935 00	
Iron pipe laid in tunnel, Section A	4,615 76	
" " B	980 50	
48-inch pipes at Shaft 11B	327 50	
48-inch stop-cock valves	4,500 00	
Ironwork, etc.—		
At shafts	17,619 85	
For gate-houses and blow-offs	15,817 27	
For dams	4,299 99	
Timber work, etc., at shafts and gate-houses	19,336 47	
Explorations under the Harlem river	4,384 26	
Experimental section in concrete, at Shaft 18	185 25	
Extra work, etc., on Section 1	4,616 03	
" " 6	42 70	
" " 12	171 35	
" " 14	597 49	
" " 15	89 32	
" " 16	668 98	
" enlarging Shaft 11C	147 81	
" on the Pocantico Gate-house	287 44	
" on the eleven head-houses	220 00	

Additional work, Section 9	$49 37	
" " 12	65 73	
" " A	1,609 56	
" East Branch Reservoir Dam	1,353 78	
" Dams Nos. 1 and 2	60 00	
" Earth and Masonry Dam, Reservoir M	1,339 53	
" highways or roads, etc., at East Branch and Bog Brook Reservoirs.	3,095 00	
" Shaft 21	85 50	
Removing solid rock in Harlem river, near Shaft 25	701 03	
Grading, etc., trenches, Quaker Bridge Dam site	150 00	
Grading and finishing the grounds adjacent Shaft 19⅝	125 00	
Surveys and topographical map, Croton water-shed	7,000 00	
Soundings south of One Hundred and Thirty-fifth street	931 18	
Sinking test pits, Titicus river and Reservoir D Dam sites	540 35	
Hoisting engines for shafts	1,280 00	
Coating interior of Aqueduct with cement	8,384 37	
Telephone line	4,995 62	
Preparing, pumping, etc., inverted siphon, sections	2,643 91	
Preparing the Aqueduct for permapent use	211 66	
Iron bridge on the East Branch of the Croton river	2,145 00	
Fencing around reservoirs, shaft-sites, etc	530 10	$136,917 81
Commissioners of Appraisal—Awards.		
Twenty-fourth Ward	$163,090 47	
Manhattan Island Section	802,230 93	
Westchester County	266,427 83	
Putnam County Section	508,778 07	1,740,527 30
Commissioners of Appraisal.		
City and County of New York	$98,921 62	
Westchester County	206,096 94	
Manhattan Island Section	77,188 85	
Putnam County Section	121,118 11	503,325 52
Total expenditures		$26,126,558 45
Cr.		
Additional Water Stock	$25,245,000 00	
Premium Account	607,168 70	
Additional Water Fund—"Miscellaneous"	7,832 25	
Total receipts		$25,860,000 95
Balance, Comptroller's Account vs. Aqueduct Commissioners		$266,557 50

Statement of Receipts and Expenditures of the Aqueduct Commissioners to April 1, 1892.

RECEIPTS.			
From Bonds Issued—			
Amount of bonds	$25,245,000 00		
Premiums on same	607,168 70		
		$25,852,168 70	
From proceeds of miscellaneous sales, etc		7,832 25	
Total receipts			$25,860,000 95
EXPENDITURES.			
Vouchers, pay-rolls, etc	$3,027,200 81		
Contracts, agreements, etc	20,797,635 00		
Land and land damages	57,869 82		
		$23,882,705 63	
Commissioners of Appraisal—			
Awards	$1,740,527 30		
Fees of counsels, Commissioners, etc	503,325 52		
		2,243,852 82	
Total expenditures			26,126,558 45
Balance, Comptroller's Account vs. Aqueduct Commissioners			$266,557 50

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, June 8, 1892, at 3 o'clock P. M.

Present—The Commissioner of Public Works and Commissioners Duane, Tucker and Scott.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 7982 to 7990, inclusive, amounting to $1,072.68; also of Vouchers Nos. 7991 to 7998, inclusive, being estimates for work done by contractors, amounting to $44,924.56.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, June 6, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated May 31, both the Bog Brook and Sodom reservoirs have continued full. The elevations of the water are, respectively, 415.01 and 415.09 feet. About 30,000,000 gallons per twenty-four hours are passing over the spillway, and about 35,000,000 gallons are being drawn daily from the Bog Brook reservoir.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the same was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning August Jadin to temporary duty as Laborer with the engineering party at Yonkers, N. Y., on June 1, at $2 per day, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of New Castle, N. Y., amounting to $19.16, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, June 7, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—As it is now time to do the work of soiling and sodding at Shaft 24, which were not included in the contract for the blow-off, I requested bids from the following persons:

P. J. Moran.	John F. Gaynor.	Reilly & McLaughlin.
W. H. Baker.	George M. Cushing.	Max W. Weir.

I have received three bids only: Mr. Twiname having asked to bid for Mr. Baker and Mr. James Flanagan for Mr. Cushing.

The bids received are as follows:

Names of Bidders.	Amount of Bid.
1. John Twiname	$706 00
2. James Flanagan	889 25
3. Max W. Weir	1,105 50

My estimate for this work is $1,066.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That the work of soiling, sodding and seeding the slopes and adjacent grounds at Shaft No. 24 of the New Croton Aqueduct is hereby awarded to John Twiname at his bid of $706, it being the lowest bid received for doing said work and less than the estimate of the Chief Engineer; and the Chief Engineer is hereby authorized and directed to have said work done.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following:

The Construction or Executive Committee report:

That on May 24, 1892, the Secretary recommended that the salary of Jefferson Groub, Clerk be fixed at $1,500 per annum, and that of Herrmann Blumenthal, Clerk, at $1,300 per annum, they having passed civil service examination and been promoted to the second grade of clerkship without fixture of salary. That the same was referred to the Chairman of the Committee of Finance and Audit for investigation and report, and on June 7 he reported favorably upon the recommendation of the Secretary.

The Committee therefore recommends the adoption of the following resolutions:

Resolved, That the salary of Jefferson Groub, Clerk, employed in the Secretary's office, is hereby fixed at one thousand five hundred dollars per annum, he having passed civil service ex-

amination and been promoted to the second grade of clerkship on February 17, 1892; the same to take effect from and after June 8, 1892.

Resolved, That the salary of Herrmann Blumenthal, Clerk, employed in the Secretary's office, is hereby fixed at one thousand three hundred dollars per annum, he having passed civil service examination and been promoted to the second grade of clerkship on February 17, 1892; the same to take effect from and after June 8, 1892.

On motion of Commissioner Scott, the same were adopted.

The Committee also recommended the adoption of the following preambles and resolutions:

Whereas, It has been represented to the Aqueduct Commissioners that the time fixed for opening the bids for the construction of the new Croton dam, at Cornell site, will not allow sufficient time for intelligent and careful bidding; and

Whereas, It is considered that in a work of such magnitude the interests of the City require that ample opportunity be given for thorough examination of the work to be done by all intending bidders;

Resolved, That the time for opening bids for said work be and hereby is changed and postponed to Wednesday, June 29, 1892, at 3 o'clock P. M., and that the resolution adopted on May 17, 1892, providing for the advertisement inviting bids for said work be reconsidered and amended by inserting June 29, as the date of receiving and opening said bids; and as so amended that it be readopted by the Commissioners.

Resolved, That the President and Secretary be and they are hereby authorized and directed to publish in the following papers, published in the City of New York, the notice and advertisement for sealed bids or proposals for doing the work and furnishing the materials for building the New Croton Dam, at Cornell site, on Croton river, in the Town of Cortlandt, Westchester County, New York, as called for in the form of contract approved by the Aqueduct Commissioners on May 17, 1892.

The CITY RECORD.	The Staats Zeitung.
The Herald.	The Daily News.
The World.	The Mail and Express.
The Times.	The Commercial Advertiser.
The Tribune.	The Evening Post.
The Sun.	The Evening Sun.
The Morning Advertiser.	The Evening World.
The Morning Journal.	The Telegram.
The Press.	Engineering News.
The Recorder.	Engineering Record.

The same were adopted by the following vote:

Affirmative—The Commissioner of Public Works, and Commissioners Duane, Tucker and Scott—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That Rodman John P. R. Taaffe, heretofore temporarily assigned to duty in the Secretary's office, be reassigned to duty in the Engineer Corps from and after July 1, 1892 ; and he is hereby directed to report to the Chief Engineer for duty on said 1st day of July, 1892.

On motion of Commissioner Scott, the same was adopted.

The Comptroller, under date of May 31, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Reservoir "M,"	$531 60
New York Section, Additional Lands	10 80
Manhattan Island Section, Additional Lands	22 45
Cornell Dam	355 11

—leaving a balance to the credit of Additional Water Fund of $8,663.46.

And stating that on May 9, 1892, bonds had been issued to the amount of $50,000.

Which were ordered entered upon the books of the Commission and filed.

On motion of Commissioner Tucker, the minutes of meetings of May 17, 18 and 25, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, June 15, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

In the absence of the Secretary, Auditor Ernest A. Wolff acted as Secretary pro tem.

The Committee of Finance and Audit reported their examination and audit of Vouchers Nos. 8000 to 8002 inclusive, being estimates for work done by contractors, amounting to $2,754.89; also of bills contained in Vouchers Nos. 8003 to 8017 inclusive, amounting to $794.80.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, June 14, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report, dated June 6th, both the Bog Brook and Sodom Reservoirs have continued full. The elevations of the water were, on the 11th instant, respectively, 415.03 and 415.08 feet.

About 24,000,000 gallons per 24 hours are passing over the spillway, and about 35,000,000 gallons are being drawn daily from the Bog Brook Reservoir.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the same was approved.

The Committee also recommended the adoption of the following resolution:

Resolved, That G. B. Bosworth, employed as clerk in the office of the Chief Engineer of the Aqueduct Commissioners, is hereby recommended to the Civil Service Commission for examination for promotion to the second grade of clerkship, under Class 1 of the Rules and Regulations of the Municipal Civil Service Boards.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, Application has been made by David R. Paige & Co., contractors, for an extension of time for four months from July 1, 1892, in which to complete their contract for building Dams Nos. 1 and 2, on Bog Brook, and adjacent tunnel in connection with the East Branch Reservoir ; and the Chief Engineer having recommended that such extension of time be granted ; therefore

Resolved, That the Aqueduct Commissioners hereby grant to David R. Paige & Co., contractors, an extension of time to November 1, 1892, in which to complete the contract above referred to, providing their bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to them as further time for the performance of said contract ; and provided also that said contractors will take, at their own cost, such steps as will prevent any damage to their work due to the possible rising of the water behind the masonry dam on the east branch of the Croton river and behind the Bog Brook dams, caused by the orders of the Commissioners if, in the opinion of said Commissioners, it is deemed necessary for the welfare and protection of the water supply of the City of New York to allow said water to rise behind said dams, or such injury or damage as may be caused by the action of the elements ; and provided also that if any damage is done to their work by such cause, they will waive all claim for compensation on account of damage, loss of time, or on account of other losses which they may incur from the rising of said water.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Secretary gave notice of the filing of a lien by R. D. Wood & Co. against John M. Waddle, contractor, for materials furnished in the construction of the blow-off at Shaft No. 24 of the New Aqueduct, amounting to $1,772.71. Which was ordered filed.

The Commissioners then adjourned.

ERNEST A. WOLFF, Secretary pro tem.

AQUEDUCT COMMISSION.

NOTE—On Wednesday, June 22, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, June 29, 1892, at 3 o'clock P. M.

Present—The Commissioner of Public Works, and Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee presented the following:

The Construction or Executive Committee report:

That at their meeting, held this day, the following resolution was adopted, and they now ask your approval of their action:

Resolved, That the bid-box be closed and the keys given to the President, and that the Secretary be authorized by this Commission to receive the bids for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, as called for in the approved forms of contract and specifications on file in the office of the Aqueduct Commissioners; and also to receive the checks of the bidders, and to make the necessary preparations for opening the bids received for doing said work, under the law.

On motion of Commissioner Scott, the action of the Committee was approved.

In pursuance of the following notices, published daily for fifteen consecutive days, commencing with May 18 and June 10, 1892, respectively, in the following papers, published in the City of New York, bids were received for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York:

The CITY RECORD.	The Morning Advertiser.	The Mail and Express.
The Herald.	The Morning Journal.	The Commercial Advertiser.

334905

The World.	The Press.	The Evening Post.
The Times.	The Recorder.	The Evening Sun.
The Tribune.	The Staats Zeitung.	The Evening World.
The Sun.	The Daily News.	The Telegram.

Also in the Engineering News and Engineering Record.

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, May 17, 1892.

To Contractors.

Bids or proposals for doing the work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners, for building the New Croton Dam at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, will be received at this office until Wednesday, the 15th day of June, 1892, at 3 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for doing said work and furnishing said materials will be made by said Commissioners as soon thereafter as practicable.

Blank forms of said approved contract and the specifications thereof, and bids or proposals, and proper envelopes for their inclosure, and form of bonds, and also the plans for said work and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners,

JAMES C. DUANE, President.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, June 9, 1892.

To Contractors.

Bids or proposals for doing the work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners, for building the New Croton Dam at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, will be received at this office until Wednesday, the 29th day of June, 1892, at 3 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for doing said work and furnishing said materials will be made by said Commissioners as soon thereafter as practicable.

Blank forms of said approved contract and the specifications thereof, and bids or proposals, and proper envelopes for their inclosure, and form of bonds, and also the plans for said work and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners.

JAMES C. DUANE, President.

J. C. LULLEY, Secretary.

The following bids, upon which the required deposits had been made, were then opened and read aloud by the Secretary:

1. The Ryan & McDonald Construction Company..... $3,527,640 00
2. William Russell Allen, William H. Swift, Claus Vieths, Jeremiah Fruin..... 5,549,998 00

3.	John McQuade, Joseph Moore	$5,260,774 00
4.	Winston, Crimmins, Washburn & Co	4,768,449 00
5.	H. H. Brown	4,181,464 00
6.	Michael S. Coleman	4,298,495 00

Whereupon, on motion of Commissioner Scott, the following preamble and resolution was adopted :

Whereas, Bids for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the town of Cortlandt, Westchester County, New York, having been received and publicly opened and read ; therefore

Resolved, That the Chief Engineer is hereby directed to have said bids calculated and tabulated, and submit the same, together with his estimates of the work, at a meeting of the Construction or Executive Committee of the Aqueduct Commissioners for consideration and canvassing by them at 3 o'clock P. M., on the 6th day of July, 1892 ; and the bids and checks of the bidders so received are hereby referred to the Committee of Finance and Audit for examination and report to the Commissioners as to their formality and the sufficiency of the sureties proposed by the bidders.

On motion of Commissioner Cannon, a recess was then taken until 4 o'clock P. M.

At 4 o'clock P. M. there were present :

Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8024 to 8036, inclusive, and 8038 to 8040, inclusive, amounting to $934.80.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, June 28, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN.—Since my last report on the flow of water, the daily supply to the Croton river has been continued at the rate of 20,000,000 gallons. The elevation of water in the Sodom Reservoir is now 414.45 feet, and the Bog Brook Reservoir is at 414.43.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, June 28, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I submit herewith the resignation of W. A. Hoe, Jr., Computer, under Division Engineer Gowen.

Mr. Hoe's services have extended over a period of more than three years, and I desire to express my regrets that his business interests induce him to resign from the Engineer Corps.

I am, respectfully,

A. FTELEY, Chief Engineer.

And recommended the adoption of the following resolution:

Resolved, That the resignation of W. A. Hoe, Jr., Computer, is hereby accepted, to take effect from and after June 30, 1892.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of John Twiname for building a temporary fence between One Hundred and Seventy-ninth and One Hundred and Eightieth streets, New York City, amounting to eighty-eight dollars and fifty-two cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, an appropriation of four hundred dollars is hereby made for purchasing the necessary trolleys and "I" beams for the Bog Brook Reservoir.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, June 29, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—There is a certain amount of work remaining to be done at Shaft 24, which, although not included in the contract for the blow-off, is so closely connected with the work now going on that it would be difficult to have it performed by outside parties without prejudicial interference. It consists mainly of a macadamized roadway from the gate-house to Sedgwick avenue, which Messrs. McLoughlin & Reilly, who are doing the work for Contractor Gaynor at Shaft 24, offered to do for $1 per square yard. The price was the lowest of two bids submitted, and is reasonable.

In addition, we have to take up and relay old drains, involving work that it is difficult to estimate, and which should properly be done by day labor.

This is to ask you to authorize the Chief Engineer to order the macadamized road from Messrs. McLoughlin & Reilly at their price, $1 per square yard, the quantity being approximately 300 square yards; and also to procure from the contractors the labor and materials necessary to do the work last

described, the total cost of which will not exceed, in my opinion, $350. The whole of the appropriation asked for would amount to $650.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That the Chief Engineer is hereby authorized and directed to have the work above referred to done by McLoughlin & Reilly at their bid, and an appropriation of six hundred and fifty dollars is hereby made to cover the cost thereof.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, an additional appropriation of thirty-five dollars is hereby made for the purpose of completing the duplicate blue-prints of the descriptive records of defective work upon the New Aqueduct.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bill of Robert A. Welcke, for lithographing, etc., contract drawings of the New Croton Dam, at Cornell Site, Westchester County, New York, amounting to three hundred and forty-two dollars and seventy-five cents, is hereby approved and ordered certified to the Comptroller for payment ; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bill of H. T. Dykman, for taxes paid by him to the Village of North Tarrytown, N. Y., for 1891, amounting to forty-nine dollars and forty-three cents, is hereby approved and ordered certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott, and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, Application has been made by Peter J. Moran, contractor, for an extension of time to August 1, 1892, for the completion of his contract for grading, improving and fencing the grounds of the One Hundred and Thirty-fifth Street Gate-house of the New Croton Aqueduct ; and the Chief Engineer having recommended that such extension of time be granted ; therefore

Resolved, That the Aqueduct Commissioners hereby grant to Peter J. Moran, contractor, an extension of time to August 1, 1892, in which to complete the contract above referred to, providing

his bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract, under said extension of time, which is hereby allowed to him as further time for the performance of said contract.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bill for taxes due the Town of Yorktown, Westchester County, New York, for 1890 and 1891, amounting to sixteen dollars and thirty-one cents, is hereby approved and ordered certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the Chief Engineer be and hereby is authorized to construct a road from Jackson avenue, or Ravensdale road, in the Town of Greenburgh, Westchester County, New York, through the grounds of the Mount Hope Cemetery Association, to a point near Shaft No. 25½ of the New Aqueduct ; and he is directed to have said work done by Levy & Quinn under their contract for grading, improving and fencing the grounds at several of the shafts of the New Aqueduct.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

On motion of Commissioner Cannon, the minutes of meetings of June 1, 8 and 15, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, July 6, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8042 to 8050, inclusive, amounting to $342.83.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, July 6, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Since my last report on the flow of water, the daily supply to the Croton river has been continued at the rate of 20,000,000 gallons. The elevation of water in the Sodom Reservoir is now 414.29 feet, and the Bog Brook Reservoir is at elevation 414.24.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Comptroller, under date of June 30, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for—

Reservoir D	$150 00
Reservoir M	501 50
Cornell Dam	300 00

—and stating that on June 29, 1892, bonds were issued to the amount of $50,000.

Leaving a balance to the credit of Additional Water Fund of $40,599.83.

Which was ordered entered upon the books of the Commission and filed.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, July 20, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of Vouchers Nos. 8052 to 8059, inclusive, and 8069, being estimates for work done by contractors, amounting to $55,304.52; also of bills contained in Vouchers Nos. 8060 to 8067, inclusive, amounting to $452, and 8070 to 8079, inclusive, amounting to $414.44.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, leave of absence, without pay, for two months, from the 8th instant, is hereby granted to Leveler D. McRae Livingstone, on account of ill health.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, the action of the Chief Engineer in assigning Winfred Henry Roberts to duty as Laborer, at Purdy's Station, N. Y., on the 14th instant, at two dollars per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Eckford C. DeKay to duty as Laborer under Division Engineer Craven at Carmel, N. Y., on the 12th instant, at two dollars per day, to take the place of J. D. Hoffman, Laborer, who left the work, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, Axeman Edward Mezger is hereby appointed Skilled Laborer in the Engineer Corps of the Aqueduct Commissioners, at three dollars per day.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, July 13, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—For furnishing and putting in place the necessary fence on the highway bridge at the Pocantico Gate-house, I have received the following bids, viz :

Names of Bidders.	Amount of Bids.
New Jersey Foundry and Machine Company	$108 25
Coldwell-Wilcox Company	113 00
M. J. Drummond	135 00
John Fox	380 00

My estimate for this work is $115.

For furnishing and delivering at Brewster, N. Y., six (6) trolley trucks, the following bids have been received, viz. :

Names of Bidders.	Amount of Bids.
M. J. Drummond	$69 00
Coldwell-Wilcox Company	129 00
John Fox	155 00
New Jersey Foundry and Machine Company	180 00

My estimate for this work is $150.

The original bids are herewith attached.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolutions :

Resolved, That the contract for furnishing and putting in place the necessary fence on the highway bridge at the Pocantico Gate-house is hereby awarded to the New Jersey Foundry and Machine Company, the lowest bidders, at their bid of one hundred and eight dollars and twenty-five cents.

Resolved, That the work of furnishing and delivering at Brewster, N. Y., six trolley trucks is hereby awarded to M. J. Drummond, the lowest bidder, at his bid of sixty-nine dollars.

The same were adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, an appropriation of one hundred dollars is hereby made for the purpose of lithographing contract drawings for the new highways in the vicinity of Reservoir "M," near Purdy's Station, Westchester County, N. Y.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, July 20, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Computer W. A. Hoe sent his resignation, "to take effect on July 5, 1892, or sooner if desired."

The resolution of the Aqueduct Commissioners, passed on June 29, includes the acceptance of Mr. Hoe's resignation to take effect from and after June 30, 1892.

Not being aware of your action, and being in want of Mr. Hoe's services, I kept him at work until July 5, inclusive.

I, consequently, would ask that you reconsider your action as to the date of his resignation in order that he may be paid for services performed as per order of the Engineer.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolutions :

Resolved, That the following resolution, adopted on June 29, 1892, be and hereby is reconsidered and rescinded :

"Resolved, That the resignation of W. A. Hoe, Jr., Computer, is hereby accepted, to take effect from and after June 30, 1892."

Resolved, That the resignation of W. A. Hoe, Jr., Computer, is hereby accepted, to take effect from and after July 5, 1892.

On motion of Commissioner Scott, the same were adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Chief Engineer of this Commission has certified in writing, under date of July 20, 1892, that Augustine M. Newton has completely performed and carried out the provisions of the contract made by him with this Commission on the 6th day of August, 1891, for constructing a highway, retaining-walls, appurtenances, etc., at Croton Dam, in the Town of Yorktown, Westchester County, N. Y., and has stated from actual measurements the whole amount of work done and materials furnished under and according to the terms of said contract, and of the true value thereof; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by Augustine M. Newton, under the contract above referred to, and direct that a proper voucher for the final payment for work done and materials furnished under said agreement be approved by the Aqueduct Commissioners and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Secretary presented an abstract of trial balance showing the expenditures of the Aqueduct Commission from its inception to June 30, 1892.

On motion of Commissioner Scott, the same was received and ordered spread in full on the minutes, as follows:

Abstract of Trial Balance, June 30, 1892.

Commissioners' Office.		
Salaries of Commissioners	$214,601 91	
Salaries of Secretary and employees	121,274 77	
Stationery	3,497 96	
Furniture and fixtures	3,188 96	
Rent	35,051 40	
Incidental expenses	5,901 86	
Books, maps and drawings	337 10	
Traveling expenses	1,483 33	
Advertising	19,777 44	
Stenographic reports	4,334 29	
		$409,449 02
Chief Engineer's Office.		
Salaries of Engineers, etc	$451,181 07	
Stationery	6,248 75	
Furniture and fixtures	4,318 54	
Rent	40,502 35	
Incidental expenses	7,828 27	
Books, maps and drawings	20,396 08	
Consulting Engineer's fees	100 00	
Drawing instruments, tables and materials	4,065 12	
Testing machines and tests	8,211 81	
		542,851 99
Tarrytown Office.		
Salaries of Engineers	$57,692 24	
Stationery	1,180 41	
Furniture and fixtures	750 25	
Rent	6,600 00	
Incidental expenses	4,030 36	
Books, maps and drawings	92 81	
Drawing instruments, tables and materials	1,127 78	
Laborers on the line	2,703 17	
Drivers and Laborers	19,989 03	
Field instruments and implements	8,776 99	

Traveling expenses	$4,081 33	
Harness and stable fittings	2,046 20	
Maintenance—Horses and wagons	11,143 32	
Horses	3,573 00	
Wagons	1,518 00	
Hire of horses and wagons	1,570 75	
		$126,875 64
Division Engineers.		
Salaries of Engineers and Laborers, old account	$154,834 84	
" " new account	1,361,674 31	
Stationery	6,205 54	
Furniture and fixtures	4,545 35	
Rent	24,643 83	
Incidental expenses	12,268 55	
Books, maps and drawings	51 99	
Drawing instruments, tables and materials	2,972 55	
Field instruments and implements	17.892 67	
Traveling expenses	6,796 83	
Harness and stable fittings	1,686 58	
Maintenance—Horses and wagons	14,018 29	
Horses	2,100 00	
Wagons	2,071 00	
Heating headquarters	8,970 00	
Hire of horses and wagons	747 25	
Testing machines and tests	2,978 14	
Laborers on the line	15 75	
Auxiliary offices	3,498 62	
		1,627,972 09
Croton Lake Survey.		
Salaries of Engineers and Laborers	$39,620 04	
Incidental expenses	74 89	
Field instruments and implements	583 16	
Traveling expenses	340 92	
Hire of horses and wagons	130 25	
Maintenance—Horses and wagons	51 60	
Rent	24 00	
Harness and stable fittings	45	
Drawing instruments, tables and materials	1 00	
		40,826 31

New Reservoir Survey.		
Salaries, Engineers and Laborers	$9,588 00	
Drawing instruments, tables and materials	25 68	
Field instruments and implements	434 31	
Furniture and fixtures	6 38	
Traveling expenses	8 54	
Stationery	3 91	
Incidental expenses	52 06	
		$10,118 88
Sodom Dam Survey.		
Salaries, Engineers and Laborers	$7,072 68	
Maintenance—Horses and wagons	2 00	
Field instruments and implements	86 49	
Hire of horses and wagons	50 75	
Incidental expenses	44 98	
Stationery	1 50	
Traveling expenses	47 10	
		7,305 50
Surveying Dam Sites.		
Salaries of Engineers and Laborers	$32,294 12	
Stationery	33 30	
Hire of horses and wagons	102 00	
Field instruments and implements	103 75	
Heating headquarters	6 93	
Furniture and fixtures	37 50	
Traveling expenses	632 40	
Drawing instruments, tables and materials	7 80	
Incidental expenses	726 08	
Maintenance—Horses and wagons	793 95	
Rent	815 70	
Books, maps and drawings	8 00	
		35,561 53
Principal Assistant Engineer, New York Office.		
Heating headquarters	$9 25	
Stationery	59 06	
Furniture and fixtures	36 24	
Incidental expenses	53 36	
		157 91
Aqueduct Commissioners' Report, 1883–1887	$8,901 51	
Aqueduct Commissioners' Report, 1887–1892	24 52	

Engraving and printing	$24,691 95	
Reports of Engineers and Aqueduct Commissioners on Quaker Bridge Dam	1,473 16	
Reports of Engineers on High Masonry Dam	490 75	
Construction damages	689 50	
Claims for damages	2,438 50	
Taxes on lands	9,538 21	
Land Agents	1,168 65	
Diamond rock boring drills	152,330 58	
Diamond rock borings	7,077 42	
Monumenting the line	3,712 98	
Monumenting Sodom Dam Survey	1,546 72	
Monumenting Aqueduct Tunnel—Division Engineer	143 72	
Models	1,355 43	
Observatory towers	1,805 95	
Judgments	21,838 79	
Land and land damages	57,869 82	
Examination of ventilation and lighting	1,306 36	
Examining Engineers	11,041 82	
Board of Experts, etc., Quaker Bridge Dam	12,550 00	
Experts examining construction work	11,926 16	
Experts on water-gates and other machinery	210 00	
Inspection of cast-iron pipes, etc	8,401 48	
East Branch Reservoir—Incidental expenses	165 00	
		$342,698 98

Contracts.

SECTION.	ESTIMATE.	CONTRACTOR.	
1	Final.	Smith & Brown	$649,964 62
2	"	Brown, Howard & Co	2,493,664 38
3	"	"	1,838,247 04
4	"	"	1,807,819 50
5	"	"	812,370 91
6	"	O'Brien & Clark	748,852 97
7	"	"	1,777,610 99
8	"	"	1,454,157 36
9	"	"	1,921,087 67
B	"	Heman Clark	1,513,279 76
A	"	"	1,105,778 60
12	"	Chas. Peterson, assignee of O'Brien & Clark	541,923 04

SECTION.	ESTIMATE.	CONTRACTOR.	
13	Final.	John Brunton & Co	$427,641 42
14	"	"	647,859 75
15	"	Richard A. Malone	156,358 20
15½	"	Robert Hanna & Co.	27,416 82
16	"	O'Brien & Clark	1,013,220 54
17	"	Richard J. Malone	37,621 69
East Branch Reservoir Dam	....	Sullivan, Rider and Dougherty	385,264 35
Dams 1 and 2, and adjacent tunnel	....	David R. Paige & Co	279,666 18
Deepening and finishing Shaft No. 24	Final.	O'Brien & Clark	91,904 59
Iron-lined masonry Aqueduct, near Shaft 30	"	Breuchaud, Pennell & Co	69,369 20
Stop-cock valves, etc., on Section 15	"	Coldwell, Wilcox & Co	19,649 53
Gate-house superstructure, etc., at Pocantico	"	John Peirce	21,717 92
Shaft 13A, Section 7	"	O'Brien & Clark	22,963 40
" 13½, " 7	"	"	18,093 69
" 15½, " 7	"	John A. Lee	15,412 90
One Hundred and Thirty-fifth Street Gate-house doors, windows, etc., Section 15	"	Charles W. Palmer	6,935 00
Cast-iron work, wrought-iron work, etc., New Croton Gate-house, Section 1	"	Coldwell, Wilcox & Co	16,057 02
Highways or roads, etc., at East Branch and Bog Brook Reservoirs	"	Clinton Stephens	90,851 69
Gate-house superstructure walls for Blow-off Chamber at Ardsley, Section 7	"	O'Brien & Clark	4,900 00
Cutting timber and clearing grounds, East Branch and Bog Brook Reservoirs	"	Pennell & O'Hern	8,975 00
22.2' x 5' sluice-gates, etc., Sections 15 and 17	"	John Fox	14,190 00
3' x 4' sluice-gates, etc., Pocantico, Ardsley and South Yonkers Gate-houses, Sections 4, 7 and 9	"	"	6,750 00
3' x 6' sluice-gates, etc., New Croton Gate-house, Section 1	"	"	21,900 00
Earth and masonry dam, Reservoir M, on Titicus river, near Purdy's Station	....	Washburn, Shaler & Washburn	317,797 40
Gate-house superstructure at South Yonkers, Section 9	Final.	O'Brien & Clark	20,349 79
Gate-house superstructure, etc., for new gate chambers at Croton Dam, Section 1	....	Smith, Brown & Coleman	39,708 90
Combined stationery hoisting engines, etc., for Shaft 25, Section 12	Final.	Charles Peterson	11,250 00
Two pairs horizontal tubular boilers, etc., Shaft 25, Section 12	"	West Point Manufacturing Company	11,900 00
Earth and masonry dam, Reservoir D	....	Michael S. Coleman	50,587 88
Auxiliary earth and masonry dam, near Craft's Station, Reservoir D	....	"	38,212 46
Eleven head-house superstructures, etc., for the shafts	Final.	Breuchaud, Pennell & Co	40,251 28
Blow-off Shaft 24, Section A	....	John M. Waddle	1,644 91
" 24, " A	....	John F. Gaynor, assignee of John M. Waddle	14,761 09

SECTION.	ESTIMATE.	CONTRACTOR.		
Two complete portable hoisting plants	Final.	West Point Manufacturing Company	$7,800 00	
Highway, retaining-walls, appurtenances, etc., Croton Dam	....	Augustine M. Newton	14,341 37	
Grading, improving and fencing grounds, One Hundred and Thirty-fifth Street Gate-house	....	Peter J. Moran	6,621 70	
Grading, improving and fencing grounds at several of the shafts	....	Hyman Levy and Thomas Quinn	4,695 65	
Head-house and engine room superstructure, etc., Shaft 25, Section 12	....	John Peirce, assignee of W. H. Baker	360 00	
Two brick engine-houses for the portable hoisting plants	....	John Twiname	3,221 77	
				$20,652,989 93

Agreements.

	ESTIMATE.	CONTRACTOR.		
Shaft 11C, Section 5	Final.	Brown, Howard & Co	$5,000 00	
" 12C, " 6	"	O'Brien & Clark	5,000 00	
" 16½, " 8	"	"	5,000 00	
" 18½, " 9	"	"	5,000 00	
" 19½, " B	"	Heman Clark	5,000 00	
Culvert at Shaft 19, Section 9	"	O'Brien & Clark	4,893 74	
" 20, " B	"	Heman Clark	2,932 05	
" 23, " A	"	O'Brien & Clark	3,208 86	
Crib dock, near Shaft 25, Section 12	"	Charles Peterson	3,694 60	
Ironwork—For Saw Mill river blow-off, etc., Section 7	"	Coldwell, Wilcox & Co	1,962 57	
Ironwork—For Pocantico blow-off, etc., Section 4	"	"	144 11	
Ironwork—For Tibbett's Brook blow-off, etc, Section 9	"	"	144 11	
Ironwork—For lining Shafts 22 to 23, Section A	"	"	3,463 43	
Ironwork—Lining Shaft 24, Section A	"	The McNeal Pipe and Foundry Co	987 32	
" " 20, " B.	"	Coldwell, Wilcox & Co	2,663 28	
" " 28, " 13	"	"	2,315 02	
" " 29, " 14	"	"	2,358 57	
Cast and wrought iron ladders for shafts, Sections 1 to 9 and B and A	"	"	2,824 25	
Roof, iron floor plates, etc., at Ardsley Gate-house, Section 7	"	"	3,326 70	
Cast-iron special pipe lining and manhole covers, etc., Shaft 24, Section A	"	"	4,931 19	
Filling low ground, Shaft Site No. 12, Section 6	"	O'Brien & Clark	4,910 00	
Cave-in, Shaft 13, Section 7	"	"	5,000 00	
Laying 20" pipe along the incline adjacent to Shaft 24, Section A.	"	"	2,895 83	
Grouting near Shaft 17½, on Section 8	"	"	4,427 50	
Grouting, Stations 778+00 and 779+30, Section 7	"	"	1,075 00	
Grouting on Section 13	"	Rogers, Shanly & Co	5,000 00	

	ESTIMATE.	CONTRACTOR.		
Grouting near Shaft 30	Final.	Breuchaud, Pennell & Co.	$2,900 93	
Shaft 17½, Section 8	"	Thomas O'Hern	2,222 12	
Highway, trestle-work and bridges at Croton Dam, Section 1	"	Smith & Brown	4,500 00	
Sodding the South Yonkers embankment on Section 9	"	Rider & Dougherty	1,575 57	
Taking down and enlarging top of Shaft 11C, Section 5	"	C. L. Kalmbach	2,917 32	
Walls, foundations, etc., near blow-off chamber, Shaft 25, Section 12	"	Charles Peterson	2,233 12	
Frame head-house and engine-room at Shaft 25, Section 12	"	"	3,690 00	
Frame boiler-house and coal bin at Shaft 25, Section 12	"	"	3,635 00	
9" anti-friction pump and improved turbine wheel, etc., Croton Dam Gate-house, Section 1	"	Joseph Edwards & Co.	2,135 00	
6.2' x 5' sluice-gates at Bog Brook and Sodom Dams	"	John Fox	4,200 00	
Pivot gate, Bog Brook Dams 1 and 2	"	Coldwell, Wilcox & Co.	2,445 00	
Finishing Shaft 21	"	William H. Baker	1,610 81	
				$122,273 00
Bailing, pumping and taking care of water on Section A			$1,309 50	
Pumping water in iron pipes, Section 12			6,063 65	
" " 13			5,405 00	
" " 14			7,935 00	
Iron pipe laid in tunnel, Section A			4,615 76	
" " B			980 50	
48-inch pipes at Shaft 11B			327 50	
48-inch stop-cock valves			4,500 00	
Ironwork, etc.—				
At shafts			17,995 99	
For gate-houses and blow-offs			16,677 88	
For dams			5,238 99	
Timber work, etc., at shafts and gate-houses			19,406 34	
Explorations under the Harlem river			4,384 26	
Experimental section in concrete, at Shaft 18			185 25	
Extra work, etc., on Section 1			4,616 03	
" " 6			42 70	
" " 12			171 35	
" " 14			696 21	
" " 15			89 32	
" " 16			668 98	
" enlarging Shaft 11C			147 81	
" on the Pocantico Gate-house			287 44	
" on the eleven head houses			220 00	
Additional work, Section 9			49 37	

Additional work, Section 12	$65 73	
" " A	1,609 56	
" East Branch Reservoir Dam	1,497 03	
" Dams Nos. 1 and 2	60 00	
" Earth and Masonry Dam, Reservoir M	1,339 53	
" highways or roads, etc., at East Branch and Bog Brook Reservoirs.	3,095 00	
" Shaft 21	85 50	
Removing solid rock in Harlem river, near Shaft 25	701 03	
Grading, etc., trenches, Quaker Bridge Dam site	150 00	
Grading and finishing the grounds adjacent Shaft 19⅝	125 00	
Surveys and topographical map, Croton water-shed	7,000 00	
Soundings south of One Hundred and Thirty-fifth street	931 18	
Sinking test pits—		
Titicus river and Reservoir D Dam sites	540 35	
Cornell Dam sites	63 56	
Hoisting engines for shafts	1,380 00	
Coating interior of Aqueduct with cement	8,384 37	
Telephone line	4,995 62	
Preparing, pumping, etc., inverted siphon, sections	2,643 91	
Preparing the Aqueduct for permanent use	211 66	
Iron bridge on the East Branch of the Croton river	2,145 00	
Fencing around reservoirs, shaft-sites, etc.	530 10	$139,568 96
Commissioners of Appraisal—Awards.		
Twenty-fourth Ward	$163,090. 47	
Manhattan Island Section	802,230 93	
Westchester County	266,427 83	
Putnam County Section	508,778 07	1,740,527 30
Commissioners of Appraisal.		
City and County of New York	$98,932 42	
Westchester County	218,193 01	
Manhattan Island Section	77,211 30	
Putnam County Section	123,212 95	517,549 68
Total expenditures		$26,316,726 72
Cr.		
Additional Water Stock	$25,345,000 00	
Premium Account	607,168 70	
Additional Water Fund—"Miscellaneous"	8,007 46	
Total receipts		25,960,176 16
Balance, Comptroller's Account vs. Aqueduct Commissioners		$356,550 56

Statement of Receipts and Expenditures of the Aqueduct Commissioners, June 30, 1892.

RECEIPTS.			
From Bonds Issued—			
Amount of bonds	$25,345,000 00		
Premiums on same	607,168 70		
		$25,952,168 70	
From proceeds of miscellaneous sales, etc.		8,007 46	
Total receipts			$25,960,176 16
EXPENDITURES.			
Vouchers, pay-rolls, etc.	$3,085,948 03		
Contracts, agreements, etc.	20,914,831 89		
Land and land damages	57,869 82		
		$24,058,649 74	
Commissioners of Appraisal—			
Awards	$1,740,527 30		
Fees of Counsels, Commissioners, etc.	517,549 68		
		2,258,076 98	
Total expenditures			26,316,726 72
Balance, Comptroller's Account vs. Aqueduct Commissioners			$356,550 56

The Committee also recommended the adoption of the following resolution :

Resolved, That the Committee of Finance and Audit are hereby authorized and empowered to audit and certify to the Comptroller vouchers, estimates and pay-rolls from this date to the 15th day of September, 1892, and after the same have been certified to by a majority of the Commissioners, to transmit the same to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Secretary gave notice of the filing of a lien by Francis Bartlett and James McCusker, against Levy & Quinn, contractors, amounting to $2,500.

Which was ordered filed.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, July 27, 1892, at 3.30 o'clock P. M.

Present—The Mayor, the Comptroller, the Commissioner of Public Works, and Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee presented the following:

The Construction or Executive Committee, to whom, on June 29, 1892, was referred for consideration and canvassing by them the bids received for furnishing all materials and doing all work necessary for building the New Croton Dam at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, present the following:

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
July 19, 1892.

To the Construction Committee of the Aqueduct Commissioners:

The undersigned, to whom the Construction Committee, on July 6, 1892, referred for examination the bids received for furnishing materials and doing all work necessary for building the New Croton Dam at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, particularly as to the responsibility of bidders and the sufficiency of the sureties proposed, respectfully submit the following report:

Of the six bidders for the work above mentioned, the lowest was the Ryan & McDonald Construction Company, of Baltimore, whose bid of $3,527,640 was $653,824 less than the next highest, and $1,047,180 less than the estimated cost of the work by the Chief Engineer.

This bid is so much less than any other that we have closely scrutinized the conditions attending its submission, with a view to ascertaining whether it may not be possible for the City to take advantage of its surprisingly favorable terms.

Your Committee has found that Mr. Cornelius J. Ryan, Plaza Hotel, is a reputable contractor of large means, and is spoken of in the highest terms by the officers of the Bank of the State of New York and the Commercial Agency, as well as by the American Surety Company; and these gentlemen do not hesitate to state that, in their judgment, the contract will be faithfully carried out if awarded to the Construction Company of which he is the head.

Of Mr. John B. McDonald, your Committee can only say that he is reputed to be a man of some means, and is a resident of the City of Baltimore.

Were the contract in the firm name of Ryan & McDonald, your Committee would without hesitancy advise the awarding of the contract to them. The Construction Company above named, however, was formed as a corporation, late in the year 1891, under the laws of the State of West Virginia, with a capital of $400,000, of which sum $235,000 is in the plant, comprising the necessary machinery to construct different works, and contractors' implements; the balance of $165,000 is in anticipated profits in a contract for a tunnel in the City of Baltimore, and in another contract for freight yards for the Baltimore and Ohio Railroad.

Your Committee has been unable to find that any cash capital has been placed in the treasury of this corporation, the stockholders of which consist principally of employees of Messrs. Ryan & McDonald, and, therefore, we have come to the conclusion that the only reason for forming the above corporation was to limit and evade liability.

Attention need hardly be called to the fact that the building of such a vast work as the New Croton Dam—the greatest undertaking of its kind ever attempted—requires a very large capital. It is therefore of the utmost importance that the City should be amply assured of the completion of the work once begun; since the abandonment by the contractors of this work in a half-completed condition would involve the City in great loss.

The capital of the Ryan & McDonald Construction Company offers no such security, nor is there any personal liabiliy involved on the part of its principal stockholders. On their bond for $500,000 is the American Surety Company—a corporation of undoubted responsibility—but we do not think that the right of action on a bond, however good the bondsmen may be, can compensate for the absence of responsibility on the part of the principals.

While recognizing the advantages to the City of the lowness of this bid of $3,527,640, your Committee cannot but regard them as offset by the limited financial responsibility of the corporation making the bid, and that these advantages would be rendered entirely valueless by the delay occasioned by the failure to complete the work and by the suits at law which would probably follow.

Your Committee, therefore, after due consideration of all the information it has been able to procure, respectfully report against awarding the contract for this great work to the Ryan & McDonald Construction Company of Baltimore.

Respectfully submitted,

THEO. W. MYERS, Comptroller.
THOS. F. GILROY, Commissioner of Public Works.

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
July 27, 1892.

To the Construction Committee of the Aqueduct Commissioners:

The Construction Committee, at a stated meeting held on the 20th instant, having resolved "That the report of the Committee, consisting of the Comptroller and the Commissioner of Public Works, appointed on July 6, 1892, to examine bids for the construction of the New Croton Dam on Croton river, at Cornell Site, in the Town of Cortlandt, Westchester County, be received, and the further consideration of the same laid over for one week; and that all the bids, except that of the Ryan & McDonald Construction Company, be referred to a Committee, consisting of the Comptroller, the Commissioner of Public Works and the President of the Commission, to consider and report to this Commission at the next meeting as to what action should be taken with reference to awarding the contract for said dam," we respectfully submit the following report:

Your Committee, after a careful consideration of all the bids, deem it expedient and for the best interests of the City of New York, that all the bids received be rejected, and that the contract

for constructing the New Croton Dam, on Croton river, at Cornell Site, in the Town of Cortlandt, Westchester County, be readvertised.

Respectfully submitted,

THEO. W. MYERS, Comptroller.
J. C. DUANE, President Aqueduct Commissioners.
THOS. F. GILROY, Commissioner of Public Works.

—and recommended the adoption of the following resolutions:

Resolved, That all the bids received on June 29, 1892, for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, be and the same are hereby rejected, and that the Comptroller be requested to return to the persons and firms whose bids and proposals have been rejected the checks deposited by them.

Resolved, That the President and Secretary be and hereby are authorized and directed to readvertise for bids for doing said work in the following papers, published in the City of New York, in which the former advertisements for the above bids were published, to and including August 24, 1892:

The CITY RECORD.	The Staats Zeitung.	The Daily News.
The Herald.	The World.	The Mail and Express.
The Times.	The Commercial Advertiser.	The Tribune.
The Evening Post.	The Sun.	The Evening Sun.
The Morning Advertiser.	The Morning Journal.	The Press.
The Recorder.	The Evening World.	The Telegram.
Engineering News.	Engineering Record.	

The same were adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Commissioner of Public Works, and Commissioners Duane, Tucker, Scott and Cannon—7.

On motion of Commissioner Cannon, a recess of half an hour was then taken.

Upon resuming the meeting there were present:

Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit submitted the following:

The Committee of Finance and Audit report:

That they have examined the bids and checks received June 29, 1892, for building the New Croton Dam on Croton river, at Cornell Site, in the Town of Cortlandt, Westchester County, New York.

The checks, amounting to $240,000, were correct and transmitted to the Comptroller, and his receipt is on file.

The bids were found correct as to their formality, and the sureties proposed appear to be sufficient.

On motion of Commissioner Scott, the report was approved.

The Committee also reported their examination and audit of bills contained in Vouchers Nos. 8082 to 8092, inclusive, amounting to $384.57; also of Voucher No. 8093, being final estimate for constructing highway, etc., at Croton Dam, amounting to $2,375.72.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That upon the recommendation of the Chief Engineer, the accompanying bill of Jacob E. Crow, being for six months' storage of portable hoisting plant, at Sing Sing, N. Y., amounting to sixty dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the resignation of Rodman John P. R. Taaffe, and recommended that the same be accepted, to take effect from and after July 27, 1892.

On motion of Commissioner Tucker, the same was accepted.

The Secretary gave notice of the filing of a lien by the New York and Rosendale Cement Company against David R. Paige & Co., for materials furnished in the construction of Dams Nos. 1 and 2, on Bog Brook and adjacent tunnel, in connection with the East Branch Reservoir, amounting to $1,997.70.

Which was ordered filed.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, August 24, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee presented the following:

The Construction or Executive Committee report:

That at their meeting, held on August 17, the following resolution was adopted, and they now ask your approval of their action:

"Resolved, That the bid-box be closed, and the keys given to the President; and that the Secretary be authorized by this Commission to receive the bids for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, as called for in the approved forms of contract and specifications on file in the office of the Aqueduct Commissioners; and also to receive the checks of the bidders, and to make the necessary preparations for opening the bids received for doing said work, under the law."

On motion of Commissioner Tucker, the action of the Committee was approved.

In pursuance to the following notice, published daily for fifteen consecutive days, commencing with July 29, 1892, in the following papers, published in the City of New York, bids were received for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York:

The CITY RECORD.	The Recorder.
The Herald.	The Staats Zeitung.
The World.	The Daily News.
The Times.	The Mail and Express.
The Tribune.	The Commercial Advertiser.
The Sun.	The Evening Post.
The Morning Advertiser.	The Evening Sun.
The Morning Journal.	The Evening World.
The Press.	The Telegram.

Also in the Engineering News and Engineering Record.

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, July 28, 1892.

To Contractors.

Bids and proposals for doing the work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners, for building the new Croton dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, will be received in this office until Wednesday, the 24th day of August, 1892, at 3 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for doing said work and furnishing said materials will be made by said Commissioners as soon thereafter as practicable.

Blank forms of said approved contract and the specifications thereof, and bids or proposals, and proper envelopes for their enclosure, and form of bonds and also the plans for said work and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners.

JAMES C. DUANE, President.

J. C. LULLEY, Secretary.

The following bids, upon which the required deposits had been made, were then opened and read aloud by the Secretary :

1. Timothy J. Sullivan	$4,314,865 00
2. John McQuade	4,403,800 00
3. Winston, Crimmins, Washburn & Company	4,527,769 00
4. Henry H. Brown	4,181,464 00
5. James S. Coleman	4,150,573 00

Whereupon, on motion of Commissioner Scott, the following preamble and resolution was adopted :

Whereas, Bids for furnishing all materials and doing all work necessary for building the new Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, having been received and publicly opened and read ; therefore

Resolved, That the Chief Engineer is hereby directed to have said bids calculated and tabulated, and submit the same, together with his estimates of the work, to the Construction or Executive Committee of the Aqueduct Commissioners for consideration and canvassing by them; and the bids and checks of the bidders so received are hereby referred to the Committee of Finance and Audit for examination and report to the Commissioners as to their formality and the sufficiency of the sureties proposed by the bidders.

On motion of Commissioner Cannon, a recess of fifteen minutes was then taken.

Upon resuming the meeting there were present :

Commissioners Duane, Tucker, Scott and Cannon.

On motion of Commissioner Scott, it was decided that when the Commissioners adjourn, they adjourn to meet on Friday, August 26, 1892, at 2 o'clock P. M.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8101 to 8120 inclusive, and 8134 to 8149 inclusive, amounting to $7,632.05; also of Vouchers Nos. 8121 to 8130 inclusive, being estimates for work done by contractors, amounting to $46,667.69; also of bills contained in Vouchers Nos. 8153 to 8168 inclusive, amounting to $1,578.04; and of Voucher No. 8169, being claim of John H. Curran, for salary due him while employed as an Axeman on the New Aqueduct, amounting to $317.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Charles A. Thomas to temporary duty as Laborer at the Carmel dams, at two dollars per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, August 9, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Owing to the interference of the work going on at Bog Brook, about three hundred feet of fence walls which were to be built under the contract with Clinton Stephens could not be built.

As we have no item in the contract with David R. Paige & Co. to cover this work, I would ask you to authorize me to have the work done.

Mr. John McLoughlin, Superintendent for D. R. Paige & Co., offers to do a part of that work at the price formerly paid to Stephens, i. e., seventy cents a running foot, and to do the balance, which requires more work, for one dollar per running foot.

As these prices are very reasonable, and the work if done by another party would interfere greatly with the present operations, I think it advisable to have the work done under the same superintendence, and I would recommend that it be given to Mr. McLoughlin.

The estimated amount of work is as follows:

150 feet, at 70 cents	$105 00
200 feet, at $1	200 00
	$305 00

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the contract for doing the work above referred to is hereby awarded to John McLoughlin at his bid of three hundred and five dollars, and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, Application has been made by John Peirce, assignee of W. H. Baker, contractor, for a further extension of time to January 1, 1893, for the completion of the contract for building the head-house and engine-room superstructure at Shaft No. 25, on Section 12 of the New Aqueduct; and the Chief Engineer having recommended that said extension of time be granted ; therefore

Resolved, That the Aqueduct Commissioners hereby grant to John Peirce, assignee of W. H. Baker, contractor, an extension of time to January 1, 1893, in which to complete the contract above referred to, providing his bondsmen shall, within ten days from the date hereof, enter into a stipulation continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to him as further time for the performance of said contract; and further providing that said Peirce will enter into an agreement authorizing the Aqueduct Commissioners to deduct from any moneys that may become due on said contract the amount of direct damages provable by reason of said extension of time.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, Leveler A. S. Nye is hereby recommended to the Civil Service Commission for examination for promotion to the position of Transitman.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, August 10, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—After analyzing with care the results of the gaugings made of the flow in the New Croton Aqueduct, I find some discrepancies which make it desirable to make more accurate observations.

As I consider it important that before finally transferring the whole Aqueduct to the Department of Public Works, we should be able to furnish an accurate schedule of its capacity under various circumstances, I respectfully request that I may be authorized to spend the amount of $500, for the purpose of establishing a measuring-weir in the Croton Dam Gatehouse, and to make such gaugings as will be found necessary.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, an appropriation of five hundred dollars is hereby made for the purpose of establishing a measuring-weir in the Croton Dam Gatehouse, and to make such gaugings as will be found necessary.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, August 10, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—On March 30, 1892, you authorized the Chief Engineer to order from John Twiname, contractor for building two brick engine-houses, all the additional masonry necessary to complete the foundations of the engine-houses at Pocantico and Dunwoodie.

From the knowledge then at hand it was thought that 25 cubic yards only would be necessary. During construction, however, the material of excavation was found unsuitable and had to be removed in view of the stability of the buildings. The total amount of rubble masonry thus built is 50 cubic yards at Pocantico and 99½ cubic yards at Dunwoodie; in all 149½ cubic yards, at $6 per cubic yard; $897, as per the accompanying bills of John Twiname, which are submitted to you with my approval.

The authority given to the Chief Engineer being to build such rubble masonry to the amount of $150, your approval is respectfully asked for the excess of masonry ordered, amounting to $747.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in having all the additional masonry and work done necessary to complete the foundations of the engine-houses at Pocantico and Dunwoodie is hereby approved; and, on his recommendation, an additional appropriation of seven hundred and forty-seven dollars is hereby made to cover the cost of doing the work above referred to; and the bills for doing said work are hereby approved and ordered certified to the Comptroller for payment.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, August 17, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—At the end of May when I visited the Bog Brook Dams in the company of the President of the Aqueduct Commissioners, I found it necessary to order forthwith some extra labor covering certain sheet-piling, draining and other work not provided for in the contract. Although authorized by you to engage labor for temporary purposes, I verbally submitted the matter to you at your first meeting in June, and stated that under the circumstances it was impossible for me to estimate the amount of labor that would be required. You then approved of my course and authorized me to employ such labor and procure such materials as should be required for the purposes indicated.

The accompanying bills, $59.78 for material, and $67.50, $119.58, $197.45 for labor, in all to the amount of $444.31, are consequently submitted for your approval and the payment of the same is recommended.

I am, very respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, an appropriation of four hundred and forty-four dollars and thirty-one cents is hereby made to defray the expense of extra

labor covering certain sheet-piling, draining and other work at the Bog Brook Dams, above referred to, and the bills for doing said work are hereby approved and ordered certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following :

The Construction or Executive Committee submit herewith communication of the Comptroller, addressed to the Counsel to the Corporation, concerning claim of John H. Curran, amounting to $634, for salary claimed to be due him while employed as an Axeman on the New Aqueduct, and opinion of the Counsel to the Corporation, addressed to the Secretary of the Aqueduct Commissioners, advising that the claim is a proper one for compromise ; and the Comptroller having adjusted and settled said claim for the sum of $317, we recommend the adoption of the following resolution :

Resolved, That a voucher be and hereby is ordered drawn in favor of John H. Curran for the sum of $317, being the amount adjusted and agreed upon by the Comptroller and said Curran for salary due him while employed as an Axeman in the Engineer Corps of the Aqueduct Commissioners, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Comptroller, under date of July 30, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Manhattan Island Section, Additional lands	$1,250 00
Reservoir D	1,450 00
Westchester County Section	663 16
Double Reservoir I, Sodom Dam	3,532 24
Reservoir M	394 30
Cornell Dam	150 00

—leaving a balance to the credit of Additional Water Fund of $73,587.83.

Also stating that on July 29, 1892, bonds were issued to the amount of $100,000.

Which was ordered entered upon the books of the Commission and filed.

On motion of Commissioner Tucker, the minutes of meetings of June 29, July 6, 20 and 27, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Adjourned Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Friday, August 26, 1892, at 2 o'clock P. M.

Present—The Commissioner of Public Works, and Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit presented the following :

The Committee of Finance and Audit report :

That they have examined the bids and checks received August 24, 1892, for building the New Croton Dam, on Croton river, at Cornell Site, in the Town of Cortlandt, Westchester County, New York.

The checks, amounting to $200,000, were correct, and transmitted to the Comptroller, and his receipt is on file.

The bids were found correct as to their formality, and the sureties proposed appear to be sufficient.

On motion of Commissioner Scott, the same was ordered filed.

The Construction or Executive Committee recommended the adoption of the following resolution :

Resolved, That the contract for furnishing all materials and doing all work necessary for building the New Croton Dam, at Cornell Site, on Croton river, in the Town of Cortlandt, Westchester County, New York, be and the same is hereby awarded to James S. Coleman, at his bid of $4,150,573, it being the lowest bid received for doing said work, and less than the estimate of the Chief Engineer.

The same was adopted by the following vote :

Affirmative—The Comptroller, the Commissioner of Public Works, and Commissioners Duane, Tucker, Scott and Cannon—6.

Before the vote was announced Commissioner Scott stated that the Comptroller, who had voted for said resolution in the Construction or Executive Committee, asked to be recorded as

voting in the affirmative upon the adoption of the resolution by the Commissioners ; and upon his motion, seconded by the Commissioner of Public Works, unanimous consent was given to have his vote so recorded.

The Secretary gave notice of the filing of a lien by John Beattie against David R. Paige & Co., contractors for Dams Nos. 1 and 2, on Bog Brook, amounting to $7,525.98.

Which was ordered filed.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

NOTE.—On Wednesday, August 31, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

NOTE.—On Wednesday, September 7, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, September 14, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8175 to 8186, inclusive, amounting to $2,508.34; Voucher No. 8187, being settlement of claim of John J. Kearney for salary due him while employed as an Inspector of Masonry on the New Aqueduct, amounting to $700; also of Vouchers Nos. 8188 to 8197, inclusive, being estimates for work done by contractors, amounting to $31,804.01; also of bills contained in Vouchers Nos. 8198 to 8208, inclusive, amounting to $214.17; also of Vouchers Nos. 8213 to 8215, inclusive, being estimates for work done by contractors, amounting to $16,295.53; and of bills contained in Vouchers Nos. 8216 to 8228, inclusive, amounting to $1,663.72.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, September 14, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—In confirmation of the verbal report made last Wednesday to your Committee, I have to state that although your instructions as to the sanitary condition of the grounds under your

control in the Croton water-shed have been followed without interruption since the directions given last year, a more careful examination has been made, and we are conforming strictly to the regulations of the State Board of Health.

At Titicus Reservoir an additional force of laborers is now at work.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed :

NEW YORK, September 14, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—I have to report that John A. Byrne, late Assistant Draughtsman at the Yonkers office, at a salary of $100 per month, was transferred to the Department of Public Works on August 28 last.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, Axeman Francis F. Hine is hereby recommended to the Civil Service Commission for examination for promotion to the grade of Rodman in the Engineer Corps of the Aqueduct Commissioners.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in assigning Robert J. Gudeon to duty as Superintendent of Dam Construction, for duty at Titicus Dam, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in employing the following-named persons, for work on the New Aqueduct, beginning with the week ending September 12, 1892, be and hereby is approved :

William James, Journeyman Machinist	$3 00	per day.
Joseph Hamilton, Fireman	2 50	"
Thomas Jenkins, "	2 50	"
David Hartigan, "	2 50	"
John Crowley, "	2 50	"
Robert Harper, Laborer	2 00	"
Timothy Brockley, "	2 00	"
James Croby, "	2 00	"
Patrick Brady, "	2 00	"

Patrick Keenain, Laborer	$2 00	per day.
Martin Dwyer, "	2 00	"
Eli Bradley, "	2 00	"
Frank Russell, "	2 00	"
Stephen A. Hynard, Laborer	2 00	"

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, August 31, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I beg to submit herewith five (5) bids for the furnishing and placing of a large iron cover at Shaft 11c, at the end of the siphon under Gould's Swamp.

The bids are as follows:

Name of Bidder.	Amount Bid.
1. John Fox	$450 00
2. M. J. Drummond	495 00
3. New Jersey Foundry and Machine Company	511 50
4. Coldwell-Wilcox Company	535 00
5. Carrere & Haas Iron Works	700 00

The amount of the lowest bid by John Fox, being, in my opinion, reasonable, I recommend that the work be given to him, if you approve of the work. My estimate for the same is $460.

Yours, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the work of furnishing and placing an iron cover at Shaft No. 11c of the New Aqueduct, at the end of the siphon under Gould's Swamp, is hereby awarded to John Fox at his bid of four hundred and fifty dollars, it being the lowest bid received and less than the estimate of the Chief Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, The Chief Engineer of this Commission has certified in writing, under date of August 31, 1892, that Francis V. Smith has completely performed and carried out the provisions of the contract made by him with this Commission on the 21st day of April, 1892, for furnishing all the labor and materials necessary and proper for constructing and finishing a fence to be built about Shaft 24 of the New Croton Aqueduct, and has stated from actual measurements the whole amount of work done and materials furnished under and according to the terms of said contract, and of the true value thereof; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by Francis V. Smith, under the contract above referred to, and direct that a proper voucher for the

final payment for work done and materials furnished under said agreement be approved by the Aqueduct Commissioners and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, September 7, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—After examining the interior of the New Aqueduct and of the gate-house at Croton Dam, I am of the opinion that spare screens should be provided at the latter place.

I would ask you consequently to authorize me to provide six (6) 8-foot screens and two (2) 6-foot screens.

The original bidders for the work at Croton Dam had tendered the price of $45 for the former and $40 for the smaller screens.

That work, however, was only a portion of a much larger contract, and the work could not be done for the price bid for the screens.

My estimate of that work, just done with care, shows it could not be done properly for less than $50 for the large screens, and $40 for the smaller.

I have procured two tenders, from C. W. Palmer, of Yonkers, and Messrs. Stair & Martin, of New York.

Mr. Palmer asks $55 for the large screens, and $45 for the small ones, delivered at Dunwoodie. The other bidders bid $58 and $48, respectively. Mr. Palmer, the lowest bidder, declines to take the work for any less than this offer, and as he has had previous experience in that kind of work, and the excess over my estimate is so small, that, considering the circumstances, I would recommend that you give the contract to him.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the work of furnishing screens for use at the gate-house at Croton Dam, referred to in the above communication, is hereby awarded to C. W. Palmer, the lowest bidder, at his bid as follows :

Eight-foot screens at $55 each.

Six-foot screens at $45 each.

And an appropriation of four hundred and twenty dollars is hereby made to cover the cost of doing the same.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in temporarily employing Daniel Reardon as Laborer on the 30th of August, 1892, at Shaft No. 25, at two dollars per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following:

The Construction or Executive Committee submit herewith communication of the Comptroller, addressed to the Counsel to the Corporation, concerning claim of John J. Kearney, amounting to $1,712, for salary claimed to be due him while employed as an Inspector of Masonry on the New Aqueduct, and opinion of the Counsel to the Corporation, addressed to the Comptroller, advising that the claim is a proper one for compromise; and the Comptroller having adjusted and settled said claim for the sum of $700, we recommend the adoption of the following resolution:

Resolved, That a voucher be and hereby is ordered drawn in favor of John J. Kearney for the sum of seven hundred dollars, being the amount adjusted and agreed upon by the Comptroller and said Kearney for salary due him while employed as an Inspector of Masonry in the Engineer Corps of the Aqueduct Commissioners, and certified to the Comptroller for payment.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon - 4.

The Secretary gave notice of the filing of a lien by Jacob Schmidt against Levy & Quinn, contractors, amounting to $196.

Which was ordered filed.

On motion of Commissioner Tucker, the minutes of meetings of August 24 and 26, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, September 21, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8231 to 8242, inclusive, amounting to $491.45.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed.

NEW YORK, September 21, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—The sanitary examination of the lands controlled by the Aqueduct Commissioners, directed by you, is being continued in accordance with the rules and regulations of the State Board of Health, and has required the employment of additional labor.

All nuisances have been substantially abated, but a constant supervision is necessary for a strict compliance with the law.

We find it especially difficult to prevent laborers living in the neighborhood of the work from washing their clothes in the stream, and I have found it necessary to provide watchmen to prevent that kind of nuisance from taking place on Sundays and during the night. Several shanties belonging to the City and occupied by laborers, which it was difficult to control, have been removed, and the remains of the same and the rubbish therein contained have been burned.

By agreement with the employees of the Department of Public Works we have covered the ground which, although not now in your possession, is surveyed as a part of the future reservoir. We have worked in co-operation with the said employees and with the local Boards of Health, and we have not encountered any opposition on the part of the owners or occupants of the premises involved in our work.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Tucker, the recommendation was approved.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in discharging the following-named persons for lack of work, on the 15th instant, be and hereby is approved :

Theopilus Greaser, First Helper.

Patrick Lynch, Second Helper.

Henry Bailey, Laborer.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in employing the following-named persons for work on the New Aqueduct be and hereby is approved :

William A. Barrett, Foreman, $3.50 per day.

Stephen Sutton, Laborer, $2 per day.

P. Sutton, Laborer, $2 per day.

Thomas Terrel, Laborer, $2 per day.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, leave of absence without pay for one month from September 1, 1892, is hereby granted to B. R. Value, Assistant Engineer, and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, Application has been made by John F. Gaynor, assignee of John M. Waddle, contractor, for an extension of time for building the blow-off at Shaft No. 24, on Section A of the New Croton Aqueduct, and the Chief Engineer having recommended that an extension of time to October 1, 1892, be granted ; therefore

Resolved, That the Aqueduct Commissioners hereby grant to John F. Gaynor, assignee of John M. Waddle, contractor, an extension of time to October 1, 1892, in which to complete the contract above referred to, providing his bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to him as further time for the performance of said contract.

On motion of Commissioner Scott, the same was adopted.

On motion of Commissioner Tucker, the minutes of meeting of September 14, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, September 28, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in discharging the following named Laborers for lack of work on the dates hereinafter mentioned be and hereby is approved:

John Regan, September 22.
E. W. Purdy, " 22.
R. F. Vredenburgh, " 24.
E. M. Tice, " 24.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning E. L. Ferris to temporary duty as Laborer at Reservoir "D," on the 22d instant, at $2 per day, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in assigning Orlando Barrett to duty as Teamster, with team, on the 20th instant, at $4 per day, for work at or near Carmel, N. Y., be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, September 28, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—President Duane asks me to report on the inclosed letter of D. R. Paige & Co., requesting a payment of $12,000 out of the reserved percentage retained on the estimates of work done at Bog Brook Dams.

The work on Bog Brook Dams is substantially completed, with the exception of the tunnel gate-house, to which your attention has been called several times, and the value of which, under the contract price, is $5,500. I believe, however, that the contractors will spend at least $2,000 in excess of that sum.

The amount now retained on the value of that work is $26,862.37.

Such being the case, the advance asked for could be made without prejudice to the interests of the City in ordinary circumstances. Owing, however, to the present financial conditions of D. R. Paige & Co., and to the liens which have already been filed or might be filed by the creditors of the firm, the advisability of complying with the aforesaid request should be left to the judgment of the Commissioners.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That the Aqueduct Commission hereby requests and advises the Comptroller to release and pay to David R. Paige & Co., contractors for the construction of the Bog Brook Dams, out of the ten per cent. retained for work done under the contract for the construction of said dams, the sum of ten thousand dollars, the said sum to be used in hastening the completion of the work called for under said contract.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following :

The Construction or Executive Committee submit herewith communication of the Comptroller, addressed to the Counsel to the Corporation, concerning claim of William A. Jaycox, amounting to $168, for salary claimed to be due him while employed as an Inspector of Masonry on the New Aqueduct, and opinion of the Counsel to the Corporation, addressed to the Comptroller, advising that the claim is a proper one for compromise ; and the Comptroller having adjusted and settled said claim for the sum of $83.22, we recommend the adoption of the following resolution :

Resolved, That a voucher be and hereby is ordered drawn in favor of William A. Jaycox for the sum of eighty-three dollars and twenty-two cents, being the amount adjusted and agreed upon by the Comptroller and said Jaycox for salary due him while employed as an Inspector of Masonry in the Engineer Corps of the Aqueduct Commissioners, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8246 to 8255, inclusive, amounting to $1,676.86, and of Voucher No. 8256, being claim for salary in favor of William A. Jaycox, amounting to $83.22.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the minutes of meeting of September 21, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, October 5, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

In the absence of the Secretary, Auditor Ernest A. Wolff acted as Secretary pro tem.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8261 to 8273, inclusive, amounting to $663,52; also of Vouchers Nos. 8274 and 8275, being estimates for work done by contractors, amounting to $10,261.05.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, an additional leave of absence without pay is hereby granted to Assistant Engineer B. R. Value from October 1, to December 1, 1892, and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, October 4, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—For furnishing and placing the necessary trolleys, frames and plates for the purpose of handling the heavy shields of stop-planks at the inlet of the New Croton Gate-house, I have received five (5) bids herewith submitted.

The names of the bidders and the amounts bid are as follows:

Names of Bidders.	Amounts Bid.
1. Carrere & Haas Iron Works	$398 00
2. Coldwell-Wilcox Company	699 00
3. M. J. Drummond	825 00

Names of Bidders.	Amounts Bid.
4. New Jersey Foundry and Machine Company	$1,200 00
5. John Fox	1,400 00

My estimate for this work is $450.

The bid of Carrere & Haas Iron Works appears very low, but I believe those parties capable of furnishing satisfactory work.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That the work of furnishing and placing the necessary trolleys, frames and plates for the purpose of handling the heavy shields of stop-planks at the inlet of the New Croton Gate-house is hereby awarded to the Carrere & Haas Iron Works at their bid of three hundred and ninety-eight dollars, it being the lowest received and less than the estimate of the Chief Engineer.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Coldwell-Wilcox Company, being for brass nuts for gate-gearing at Sodom Dam, amounting to three dollars and twenty cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That upon the recommendation of the Chief Engineer, the accompanying bill of Coldwell-Wilcox Company, being for wrought-iron band for scuttle of Bog Brook Gate-house, amounting to $9, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communications, received from the Chief Engineer :

NEW YORK, October 4, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—The following-named Laborers, working by the day, were on the pay-rolls of the Aqueduct Commissioners on August 1, 1888, or were employed subsequently from time to time between August 1, 1888, and October 1, 1892.

When the necessity for their employment ceased they were dropped from the pay-rolls of the Engineering Department, with the exception of those marked with an asterisk, who are now in the employ of the Aqueduct Commissioners, temporarily or otherwise.

W. H. Springsteen.	*George C. Bowdy.	Hugh Doyle.
*John McCormick,	D. Ford.	Cornelius Brosnan.
W. H. Hoffman.	G. Willis.	*Charles E. Richards.
J. Kearns.	D. Tierney.	James McCartney.
*Tony Mount.	I. Young.	James Watson.

*Charles Hutchings.
*James Healey.
W. P. O'Mara.
Charles Vosburgh.
G. Sherwood.
R. J. Barrett.
*John O'Connor.
O. H. Cole.
T. C. Gallagher.
C. W. Fish.
* W. Guilfoyle.
Thomas Desmond.
J. Williams.
J. T. Reilley.
T. Loftus.
W. L. Mead.
C. H. Manchester.
W. Adams.
G. Clare.
R. Madigan.
M. Doyle.
J. Carroll.
J. Kelly.
A. Creighton.
O. Woods.
J. Lyons.
E. Sarles.
M. Halloran.
P. Reilly.
E. W. Purdy.
W. H. Taylor.
Theopolus Greaser.
Peter B. Lynt.
R. J. Vredenberg.
Allen Barker.
Vine Travis.
Philip Sheean.
John Sheean.
P. Healy.
Robert Sarles.
Michael Corkey.
Michael Hill.
James Watson.
Richard Starkey.
G. R. Dennis.
Charles E. Burpo.
Tim. Sullivan.
Daniel Hayes.
John Fleming.
John Highbush.
Patrick Flynn.

A. Fleming.
*J. Lounsberry.
C. Wilson.
R. Palmer.
S. Elkins.
W. R. Palmer.
H. Morehouse.
F. Lewis.
H. Adams.
D. Lawless.
W. Young.
E. M. Avery.
H. B. Greene.
J. L. Cuatt.
Levi Cuatt.
John Regan.
H. Bailey.
R. Perkins.
John Currie.
John H. Odell.
William Bath.
Frederick Mitchell.
Samuel Mitchell.
A. B. Willsey.
John W. Welch.
P. Condon.
John McTigue.
August Sage.
James McGeoy.
Matthew Rooney.
Henry Tucker.
William Seymour.
Joseph Massa.
James Barry.
James H. Hawes.
Patrick Nolan.
John Miller.
Luke Morris.
George Horyok.
Michael Critchner.
Tony Rickerts.
Simon Martin.
Charles Bailey.
C. McCord.
*John Tompkins.
Joseph Doet.
Paul Dolok.
John Tracy.
Michael Estok.
John Moorsie.
Thomas Murray.

Henry Courtney.
James McCormick.
*Michael Cusick.
Daniel Manning.
*James McDonald.
*R. B. Wixom.
D. V. Tice.
*E. M. Smith.
James E. Kearns.
R. Owen.
*W. P. Gay.
J. D. Hoffman.
*August Jadin.
*W. H. Roberts.
*C. A. Thomas.
*Martin Dwyer.
*Frank Russell.
*Patrick Brady.
*Stephen Sutton.
*P. Sutton.
Robert Harper.
James Crosbey.
Patrick Brady.
John Crowley.
John Cletush.
John Horyok.
B. Voullaire.
Matthew Deegan.
James Ambrose.
Daniel Rooney.
Michael Hill.
Thomas Hogan.
James King.
Joseph McGucken.
Eugene McSweeney.
Mark Spencer.
Michael Costello.
Augustus Travis.
Michael McNamara.
James Sanders.
James Fletcher, Jr.
Thomas Foley.
*Leander Clements.
*John D. Grannis.
E. L. Tice.
*Edward Whitehouse.
Thomas T. Craven.
R. Jones.
W. Jones.
H. Jones.
*E. J. Dougherty.

Patrick Keenan.	Richard Mansfield.	*Peter Denning.
George Wobock.	Charles Peters.	E. C. De Kay.
Tony Visingting.	Tony Massa.	*Edward Mezger.
Michael Vimmon.	Stephen Gochese.	*Daniel Reardon.
John Carpenter.	Gilbert Tompkins.	*Eli Bradley.
James Kelly.	George Kelly.	*S. T. Hynard.
M. Curtin.	Julius Anderson.	*W. A. Barrett.
Henry Dolen.	John Carlson.	*E. L. Ferris.
William Parker.	Antony Cumack.	Thomas Terrel.
Charles Gardner.	Nicholas Rogers.	Timothy Brockley.
James Whelan.	John Kelly.	Patrick Keenain.
George Bokogg.	Cornelius Plass.	*Orlando Barrett.
Paul Papporier.	Terence Gallagher.	

Firemen.

Thomas Jenkins.	David Hartigan.	John Crowley.
Joseph Hamilton.		

Yours, respectfully,

A. FTELEY, Chief Engineer.

NEW YORK, October 4, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—As indicated by asterisk on the preceding schedule, the following is a list of the Laborers now in the employ of the Aqueduct Commissioners:

John McCormick.	Edward Whitehouse.	August Jadin.
Tony Mount.	Peter Denning.	W. H. Roberts.
John O'Connor.	Daniel Reardon.	Martin Dwyer.
W. Guilfoyle.	S. T. Hynard.	Patrick Brady.
John Tompkins.	E. L. Ferris.	Leander Clements.
Michael Cusick.	James Healey.	John D. Grannis.
James McDonald.	Charles Hutchings.	E. J. Dougherty.
R. B. Wixom.	George C. Bowdy.	Edward Mezger.
C. A. Thomas.	John Lounsberry.	Eli Bradley.
Frank Russell.	E. M. Smith.	W. A. Barrett.
Stephen Sutton.	W. P. Gay.	Orlando Barrett.
P. Sutton.		

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the same were ordered spread in full on the minutes and filed.

The Committee also presented the following communication received, from the Chief Engineer:

NEW YORK, October 5, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I desire to state for your information that the operations of the contractor for the New Croton Dam, in blasting the northerly side-hill for the new channel which is to be provided for the diversion of Croton river, will destroy a part of the highway which now runs at the

bottom of the hill. You are aware that a part of that highway is included in the land taken by the City.

In order to maintain the public traffic uninterrupted, I propose to build a bridge at the lowest point of the land taken by the City, across Croton river, to a point on the south side which is beyond the taking of the City, but on land which has been leased by the contractor.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That authority is hereby given to the Chief Engineer to build a bridge at the point designated in the foregoing communication.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following :

The Construction or Executive Committee submit herewith form of contract, specifications and bond, received from the Commissioner of Public Works on the 3d day of October, 1892, to provide for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York, and recommend the adoption of the following resolutions :

Resolved, That the form of contract, specifications and bond, submitted by the Commissioner of Public Works on the 3d day of October, 1892, and approved by the Counsel to the Corporation "as to form," for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York, be and the same are hereby approved and adopted ; and the Secretary is hereby directed to have triplicate copies thereof prepared for certification by the Aqueduct Commissioners, and filed in accordance with section 25, chapter 490, Laws of 1883.

Resolved, That the President and Secretary be and they are hereby authorized and directed to publish in the CITY RECORD, New York "World" and the New York "Sun," the notice and advertisement for sealed bids or proposals for doing the work and furnishing all materials for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York, as called for in the form of contract approved by the Aqueduct Commissioners on October 5, 1892.

On motion of Commissioner Tucker, the same were adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Chief Engineer of this Commission has certified in writing, under date of October 5, 1892, that Peter J. Moran has completely performed and carried out the provisions of the contract made by him with this Commission on the 7th day of October, 1891, for grading, improving and fencing the grounds of the One Hundred and Thirty-fifth Street Gate-house of the New Croton Aqueduct, and has stated, from actual measurements, the whole amount of work done and materials furnished under and according to the terms of said contract, and of the true value thereof ; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by Peter J. Moran under the contract above referred to, and direct that a proper voucher for the final payment for work done and materials furnished under said agreement be approved by the Aqueduct Commissioners and certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

On motion of Commissioner Scott, it was decided that when the Commissioners adjourn, they adjourn to meet on Thursday, October 13, 1892, at 3 o'clock P. M.

On motion of Commissioner Tucker, the minutes of stated meeting of September 28, 1892, were ordered approved.

The Commissioners then adjourned.

ERNEST A. WOLFF, Secretary pro tem.

AQUEDUCT COMMISSION.

Minutes of Adjourned Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Thursday, October 13, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of Vouchers Nos. 8276 to 8285, inclusive, being estimates for work done by contractors, amounting to $59,292.42; also of bills contained in Vouchers Nos. 8286 to 8289, inclusive, amounting to $377.33.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in discharging James E. Kearns, Laborer, at Shaft No. 25 of the New Aqueduct, and employing Samuel Hopkins as Laborer in his stead, at $2 per day, on October 4, 1892, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following:

The Construction or Executive Committee report:

That they have been notified by Clinton L. Stephens, executor of the estate of John Sullivan, deceased, of the assignment by Albert L. Rider and Patrick J. Dougherty, of the firm of Sullivan, Rider & Dougherty, contractors, to Clinton L. Stephens and Ellen A. Sullivan, executor and executrix of said estate, of all their right, title and interest in and to the undivided profits, and in and to the retained percentages for work done under a certain contract made with the Mayor, Aldermen and Commonalty of the City of New York, bearing date December 30, 1887, for constructing a dam and other work on the East Branch of Croton river, Putnam County, New York, to secure the payment of moneys advanced to them by said Clinton L. Stephens and Ellen A. Sullivan

to enable them to complete the work referred to in said contract, and that said Clinton L. Stephens has requested the Aqueduct Commissioners to assent to said assignment; and, inasmuch as the contract for doing said work provides that the contractors shall not assign, by power of attorney or otherwise, any of the moneys payable under said contract unless by and with the consent of the Aqueduct Commissioners; and your Committee being satisfied that it will be to the interest of the work and beneficial to the City of New York that such consent be given, we recommend the adoption of the following resolution:

Resolved, That the Aqueduct Commissioners hereby assent and consent to the assigning of all the right, title and interest in and to the undivided profits, and in and to the retained percentages for work done under and in pursuance to a certain contract made with the Mayor, Aldermen and Commonalty of the City of New York, bearing date December 30, 1887, for constructing a dam and other work on the East Branch of Croton river, Putnam County, New York, by Albert L. Rider and Patrick J. Dougherty, of the firm of Sullivan, Rider & Dougherty, contractors, to Clinton L. Stephens and Ellen A. Sullivan, executor and executrix of the estate of John Sullivan, deceased, to secure loans heretofore made to said contractors by said Clinton L. Stephens and Ellen A. Sullivan.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, Application has been made by Levy & Quinn, contractors, for an extension of time to January 1, 1893, for the completion of their contract for grading, improving and fencing the grounds at several of the shafts of the New Croton Aqueduct; and the Chief Engineer having recommended that such extension of time be granted; therefore

Resolved, That the Aqueduct Commissioners hereby grant to Levy & Quinn, contractors, an extension of time to January 1, 1893, in which to complete the contract above referred to, providing their bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract, under said extension of time, which is hereby allowed to them as further time for the performance of said contract.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolutions:

Resolved, That upon the recommendation of the Chief Engineer, the superintendency of the construction of the New Croton Dam, at Cornell Site, in Westchester County, New York, is hereby put in charge of Division Engineer Charles S. Gowen, and he is relieved from the further superintendency of Dam and Reservoir "M," on Titicus river.

Resolved, That upon the recommendation of the Chief Engineer, the superintendency of the construction of Dam and Reservoir "M," on Titicus river, in Westchester County, New York, is hereby put in charge of Division Engineer Alfred Craven, the duties of said superintendency to be in addition to the duties now required of him as Division Engineer in charge of the Carmel Dams.

Resolved, That upon the recommendation of the Chief Engineer, Division Engineer Edward Wegmann, Jr., be and hereby is detailed to take charge of the work of the surveys and preparations required to be done in order to prepare for the construction of the Muscoot Dam, and of the roads and bridges for the new reservoir on Croton river, under the direction of the Chief Engineer.

On motion of Commissioner Tucker, the same were adopted.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

NOTE.—On Wednesday, October 19, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, October 26, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Construction or Executive Committee presented the following:

The Construction or Executive Committee report:

That at their meeting, held on October 26, 1892, the following resolution was adopted, and they now ask your approval of their action:

"Resolved, That the bid-box be closed, and the keys given to the President; and that the Secretary be authorized by this Commission to receive the bids for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York, as called for in the approved forms of contract and specifications on file in the office of the Aqueduct Commissioners; and also to receive the checks of the bidders, and to make the necessary preparations for opening the bids received for doing said work, under the law."

On motion of Commissioner Tucker, the action of the Committee was approved.

In pursuance to the following notice, published daily for fifteen consecutive days, commencing with October 6, 1892, in the CITY RECORD, "New York Sun" and "New York World," bids were received for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York:

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, October 6, 1892.

To Contractors.

Bids or proposals for doing the work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York, will be received at this office until Wednesday, October 26, 1892, at 3 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award

of the contract for doing said work and furnishing said materials will be made by said Commissioners as soon thereafter as practicable.

Blank forms of said approved contract and the specifications thereof, and bids or proposals, and proper envelopes for their inclosure, and form of bonds, and also the plans for said work and all other information can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners.

JAMES C. DUANE, President.

J. C. LULLEY, Secretary.

1. George Cusno—	
Style "A"	$5,460 00
" "B"	
2. Clinton Stephens—	
Style "A"	9,750 00
" "B"	15,600 00
3. Christopher Nally—	
Style "A"	6,532 50
" "B"	10,920 00
4. John Twiname—	
Style "A"	7,702 50
" "B"	13,455 00
5. Charles Erickson—	
Style "A"	11,700 00
" "B"	23,400 00
6. Francis V. Smith—	
Style "A"	9,360 00
" "B"	17,550 00
7. John E. Brooks—	
Style "A"	7,605 00
" "B"	10,725 00

Whereupon, on motion of Commissioner Scott, the following preamble and resolution was adopted:

Whereas, Bids for furnishing all materials and doing all work necessary for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the town of South East, Putnam County, New York, having been received and publicly opened and read; therefore

Resolved, That the Chief Engineer is hereby directed to have said bids calculated and tabulated, and submit the same, together with his estimates of the work, to the Construction or Executive Committee of the Aqueduct Commissioners for consideration and canvassing by them; and the bids and checks of the bidders so received are hereby referred to the Committee of Finance and Audit for examination and report to the Commissioners as to their formality and the sufficiency of the sureties proposed by the bidders.

On motion of Commissioner Scott, a recess of fifteen minutes was then taken.

Upon resuming the meeting, there were present:

Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8293 to 8305, inclusive, amounting to $527.66; also of Vouchers Nos. 8306 to 8308, inclusive, being estimates for work done by contractors, amounting to $15,929.46.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following preamble and resolution:

Whereas, In the opinion of the Aqueduct Commissioners, the further sum of five hundred thousand dollars will be required to defray the necessary and lawful expenditures of said Commissioners; now, therefore, be it

Resolved, That the Comptroller of the City of New York be and he is hereby requested to raise the sum of five hundred thousand dollars upon bonds of the City of New York, in conformity with the requirements of section 32, chapter 490, Laws of 1883, of the State of New York, for the uses and purposes of the Aqueduct Commissioners, as set forth in said chapter and section of said law.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott, and Cannon—4.

The Committee also recommend the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in dispensing with the services of the following-named persons heretofore employed at Reservoir "M," and on the dates hereinafter named, be and hereby is approved:

William A. Barrett, Foreman, October 14, 1892.

Orlando Barrett, Teamster, October 14, 1892.

Stephen Sutton, Laborer, October 7, 1892.

P. Sutton, Laborer, October 15, 1892.

E. L. Ferris, Laborer, October 7, 1892.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in reassigning the following-named Superintendents of Dam Construction to duty on the dates and at the places hereinafter given be and hereby is approved:

Timothy Capper, assigned to Titicus Dam, on October 18, 1892.

Thomas Graham, assigned to Shaft 25, on October 24, 1892.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, October 26, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—I herewith submit three (3) bids received for furnishing and delivering at Purdy's Station, N. Y., one special 24-inch valve for the Titicus Dam.

Names of Bidders.	Amount Bid.
1. John Fox	$100 00
2. Coldwell-Wilcox Company	125 00
3. Joseph Edwards & Co	138 00

The bid of John Fox being the lowest, and a reasonable one, I recommend that the work be awarded to him.

I am, respectfully,

A. FTELEY, Chief Engineer.

And recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the work of furnishing and delivering at Purdy's Station, New York, one special 24-inch valve for the Titicus Dam is hereby awarded to John Fox at his bid of $100, it being the lowest received for doing said work.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation, under date of October 26, 1892, had advised the Comptroller that the City is liable for the payment of interest on the amounts deducted under the advice of the Counsel to the Corporation from the final estimates on contracts for Sections 7, 8, 9, B and A of the New Aqueduct, which amounts were, by resolution of this Board, adopted on January 13, 1892, and, under the advice of the Counsel to the Corporation, allowed to the contractors ; therefore

Resolved, That the following-named amounts be allowed for interest on said sums deducted, viz :

Section 7, on $37,800.61, interest from April 4, 1890, to October 26, 1892, $5,808.69.

Section 8, on $23,816.45, interest from May 9, 1892, to October 26, 1892, $3,520.86.

Section 9, on $50,800, interest from October 23, 1891, to October 26, 1892, $3,073.40.

Section B, on $35,248.51, interest from October 18, 1891 (account of Section B), to October 26, 1892, $2,161.91, and on $18,436.90 (account of Section A), interest from October 18, 1891, to October 26, 1892, $1,130.79.

Section A, on $742.28 (balance account), interest from June 5, 1891, to October 26, 1892, $61.98.

And that proper vouchers be prepared for certification and transmission to the Comptroller for payment, requisition for said sums being hereby made upon the Comptroller.

The same was adopted by the following vote :

Affirmative—Commissioner Duane, Tucker, Scott and Cannon—4.

The Committee also presented the following communication (with accompanying schedule), received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, October 26, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I herewith submit a schedule of the capacities of the reservoirs on Bog Brook and on East Branch of the Croton river for every foot in height from the bottom to the height of the spillway; the same being the result of exact surveys and calculations.

In case the crest of the spillway should ever be in the future raised by the means of stop-planks, or otherwise, I have added a schedule of capacities to elevation 419, i. e., four feet above the present crest.

Allow me to suggest that two of the three copies herein inclosed be sent to the Commissioner of Public Works for his information.

I am, respectfully,

A. FTELEY, Chief Engineer.

Capacity of Bog Brook Reservoir.

Elevations, Feet.	Depths, Feet.	United States Gallons.	Elevations, Feet.	Depths, Feet.	United States Gallons.	Elevations, Feet.	Depths, Feet.	United States Gallons.
365	..	.....	382	17	662,000,000	399	34	2,256,000,000
366	1	300,000	383	18	741,000,000	400	35	2,369,000,000
367	2	1,200,000	384	19	824,000,000	401	36	2,474,000,000
368	3	2,000,000	385	20	909,000,000	402	37	2,585,000,000
369	4	4,000,000	386	21	994,000,000	403	38	2,697,000,000
370	5	11,000,000	387	22	1,037,000,000	404	39	2,811,000,000
371	6	25,000,000	388	23	1,169,000,000	405	40	2,927,000,000
372	7	48,000,000	389	24	1,262,000,000	406	41	3,044,000,000
373	8	81,000,000	390	25	1,358,000,000	407	42	3,160,000,000
374	9	121,000,000	391	26	1,451,000,000	408	43	3,277,000,000
375	10	171,000,000	392	27	1,547,000,000	409	44	3,396,000,000
376	11	224,000,000	393	28	1,644,000,000	410	45	3,520,000,000
377	12	287,000,000	394	29	1,742,000,000	411	46	3,649,000,000
378	13	355,000,000	395	30	1,846,000,000	412	47	3,764,000,000
379	14	429,000,000	396	31	1,945,000,000	413	48	3,888,000,000
830	15	508,000,000	397	32	2,047,000,000	414	49	4,016,000,000
381	16	584,000,000	398	33	2,151,000,000	415	50	4,145,000,000

Total capacity to present crest of spillway, elevation 415: 4,145,000,000.

Capacity above present crest of spillway:

Elevations.	United States Gallons.
415 to 416	125,000,000
416 to 417	130,000,000
417 to 418	132,000,000
418 to 419	137,000,000
Total	524,000,000

Capacity of Sodom Reservoir.

Elevations, Feet.	Depths, Feet.	United States Gallons.	Elevations, Feet.	Depths, Feet.	United States Gallons.	Elevations, Feet.	Depths, Feet.	United States Gallons.
347	..	.....	370	23	379,700,000	393	46	1,903,000,000
348	1	103,000	371	24	419,000,000	394	47	1,998,000,000
349	2	412,000	372	25	462,000,000	395	48	2,098,000,000
350	3	927,000	373	26	505,000,000	396	49	2,199,000,000
351	4	2,500,000	374	27	554,000,000	397	50	2,304,000,000
352	5	4,400,000	375	28	601,000,000	398	51	2,415,000,000
353	6	7,200,000	376	29	654,000,000	399	52	2,528,000,000
354	7	11,400,000	377	30	707,000,000	400	53	2,650,000,000
355	8	18,360,000	378	31	764,000,000	401	54	2,770,000,000
356	9	26,300,000	379	32	823,000,000	402	55	2,896,000,000
357	10	37,700,000	380	33	883,000,000	403	56	3,030,000,000
358	11	50,800,000	381	34	947,000,000	404	57	3,166,000,000
359	12	65,700,000	382	35	1,014,000,000	405	58	3,307,000,000
360	13	83,380,000	383	36	1,082,000,000	406	59	3,445,000,000
361	14	102,800,000	384	37	1,155,000,000	407	60	3,593,000,000
362	15	126,200,000	385	38	1,228,000,000	408	61	3,737,000,000
363	16	150,800,000	386	39	1,306,000,000	409	62	3,894,000,000
364	17	178,000,000	387	40	1,384,000,000	410	63	4,053,000,000
365	18	207,600,000	388	41	1,464,000,000	411	64	4,215,000,000
366	19	237,200,000	389	42	1,548,000,000	412	65	4,377,000,000
367	20	269,400,000	390	43	1,634,000,000	413	66	4,547,000,000
368	21	304,500,000	391	44	1,713,000,000	414	67	4,716,000,000
369	22	341,600,000	392	45	1,811,000,000	415	68	4,883,000,000

Total capacity to present crest of Spillway, elevation 415 : 4,883,000,000.

Capacity above present crest of Spillway :

Elevations.	United States Gallons.
415 to 416	174,000,000
416 to 417	178,000,000
417 to 418	183,000,000
418 to 419	188,000,000
Total	723,000,000

On motion of Commissioner Tucker, the recommendation was approved.

The Comptroller, under date of September 30, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Reservoir "M"	$3,611 78
Cornell Dam	2,450 00
Westchester County Section—Additional Lands	24 75
Manhattan Island Section—Additional Lands	41 74

—leaving a balance to the credit of Additional Water Fund of $81,762.31; and stating that on August 31, 1892, bonds were issued to the amount of $150,000.

Which were ordered entered on the books of the Commission and filed.

The Secretary gave notice of the filing of a lien by Alexander H. Green, as executor, etc., of the estate of William B. Ogden, deceased, against John F. Gaynor, contractor for the construction of the blow-off at Shaft No. 24 of the New Aqueduct, amounting to $2,000.

Which was ordered filed.

The Secretary presented an abstract of trial balance, showing the expenditures of the Commission from its inception to September 30, 1892, as follows:

Abstract of Trial Balance, September 30, 1892.

Commissioners' Office—		
Salaries of Commissioners	$219,601 83	
Salaries of Secretary and employees	125,367 22	
Stationery	3,576 46	
Furniture and fixtures	3,274 96	
Rent	36,199 70	
Incidental expenses	6,166 79	
Books, maps and drawings	419 60	
Traveling expenses	1,509 58	
Advertising	28,110 69	
Stenographic reports	4,334 29	
		$428,561 12
Chief Engineer's Office—		
Salaries of Engineers, etc	$458,121 34	
Stationery	6,306 56	
Furniture and fixtures	4,593 79	
Rent	41,904 05	
Incidental expenses	7,873 99	
Books, maps and drawings	20,768 46	
Consulting Engineer's fees	100 00	
Drawing instruments, tables and materials	4,065 12	
Testing machines and tests	8,211 81	
		551,945 12

Tarrytown Office—		
Salaries of Engineers	$57,692 24	
Stationery	1,180 41	
Furniture and fixtures	750 25	
Rent	6,600 00	
Incidental expenses	4,030 36	
Books, maps and drawings	92 81	
Drawing instruments, tables and materials	1,127 78	
Laborers on the line	2,703 17	
Drivers and Laborers	19,989 03	
Field instruments and implements	8,776 99	
Traveling expenses	4,081 33	
Harness and stable fittings	2,051 20	
Maintenance—Horses and wagons	11,143 32	
Horses	3,573 00	
Wagons	1,578 00	
Hire of horses and wagons	1,667 75	
		$126,977 64
Division Engineers.		
Salaries of Engineers and Laborers, old account	$154,834 84	
Salaries of Engineers and Laborers, new account	1,396,747 66	
Stationery	6,251 56	
Furniture and fixtures	4,815 35	
Rent	25,020 33	
Incidental expenses	12,412 68	
Books, maps and drawings	51 99	
Drawing instruments, tables and materials	2,983 75	
Field instruments and implements	17,917 71	
Traveling expenses	6,882 27	
Harness and stable fittings	1,718 57	
Maintenance—Horses and wagons	14,473 68	
Horses	2,100 00	
Wagons	2,191 00	
Heating headquarters	3,997 50	
Hire of horses and wagons	773 25	
Testing machines and tests	2,997 16	
Laborers on the line	15 75	
Auxiliary offices	3,524 65	
		1,654,709 70

Croton Lake Survey.		
Salaries of Engineers and Laborers	$39,620 04	
Incidental expenses	74 89	
Field instruments and implements	583 16	
Traveling expenses	340 92	
Hire of horses and wagons	130 25	
Maintenance—Horses and wagons	51 60	
Rent	24 00	
Harness and stable fittings	45	
Drawing instruments, tables and materials	1 00	
		$40,826 31
New Reservoir Survey.		
Salaries, Engineers and Laborers	$9,588 00	
Drawing instruments, tables and materials	25 68	
Field instruments and implements	434 31	
Furniture and fixtures	6 38	
Traveling expenses	8 54	
Stationery	3 91	
Incidental expenses	52 06	
		10,118 88
Sodom Dam Survey.		
Salaries, Engineers and Laborers	$7,072 68	
Maintenance—Horses and wagons	2 00	
Field instruments and implements	86 49	
Hire of horses and wagons	50 75	
Incidental expenses	44 98	
Stationery	1 50	
Traveling expenses	47 10	
		7,305 50
Surveying Dam Sites.		
Salaries of Engineers and Laborers	$34,149 12	
Stationery	33 30	
Hire of horses and wagons	102 00	
Field instruments and implements	103 75	
Heating headquarters	6 93	
Furniture and fixtures	37 50	
Traveling expenses	632 40	
Drawing instruments, tables and materials	7 80	
Incidental expenses	726 08	
Maintenance—Horses and wagons	793 95	
Rent	815 70	
Books, maps and drawings	8 00	
		37,416 53

Principal Assistant Engineer, New York Office.

Heating headquarters	$9 25	
Stationery	59 06	
Furniture and fixtures	36 24	
Incidental expenses	53 36	
		$157 91
Aqueduct Commissioners' Report, 1883–1887	$8,901 51	
Aqueduct Commissioners' Report, 1887–1892	24 52	
Engraving and printing	24,897 79	
Reports of Engineers and Aqueduct Commissioners on Quaker Bridge Dam	1,473 16	
Reports of Engineers on High Masonry Dam	492 75	
Construction damages	689 50	
Claims for damages	2,438 50	
Taxes on lands	9,538 21	
Land agents	1,168 65	
Diamond rock-boring drills	155,660 68	
Diamond rock borings	7,077 42	
Monumenting the line	3,712 98	
Monumenting Sodom Dam Survey	1,546 72	
Monumenting Aqueduct Tunnel—Division Engineer	143 72	
Models	1,355 43	
Observatory towers	1,805 95	
Judgments	22,939 01	
Land and land damages	57,869 82	
Examination of ventilation and lighting	1,306 36	
Examining engineers	11,041 82	
Board of experts, etc., Quaker Bridge Dam	12,550 00	
Experts examining construction work	11,926 16	
Experts on water-gates and other machinery	210 00	
Inspection of cast-iron pipes, etc	8,414 30	
East Branch Reservoir—Incidental expenses	165 00	
		347,347 96

Contracts.

SECTION.	ESTIMATE.	CONTRACTOR.	
1	Final.	Smith & Brown	$649,964 62
2	"	Brown, Howard & Co	2,493,664 38
3	"	"	1,838,247 04
4	"	"	1,807,819 50
5	"	"	812,370 91

SECTION.	ESTIMATE	CONTRACTOR.	
6	Final.	O'Brien & Clark	$748,852 97
7	"	"	1,777,610 99
8	"	"	1,454,157 36
9	"	"	1,921,087 67
B	"	Heman Clark	1,513,279 76
A	"	"	1,105,778 60
12	"	Chas. Peterson, assignee of O'Brien & Clark	541,923 04
13	"	John Brunton & Co	427,641 42
14	"	"	647,869 75
15	"	Richard A. Malone	156,358 20
15½	"	Robert Hanna & Co	27,416 82
16	"	O'Brien & Clark	1,013,220 54
17	"	Richard J. Malone	37,621 69
East Branch Reservoir Dam	55	Sullivan, Rider & Dougherty	396,063 90
Dams 1 and 2, and adjacent tunnel	42	David R. Paige & Co	291,761 30
Deepening and finishing Shaft No. 24	Final.	O'Brien & Clark	91,904 59
Iron-lined masonry Aqueduct, near Shaft 30	"	Breuchaud, Pennell & Co	69,369 20
Stop-cock valves, etc., on Section 15	"	Coldwell, Wilcox & Co	19,649 53
Gate-house superstructure, etc., at Pocantico	"	John Peirce	21,717 92
Shaft 13A, Section 7	"	O'Brien & Clark	22,963 40
" 13½, " 7	"	"	18,093 69
" 15½, " 7	"	John A. Lee	15,412 90
One Hundred and Thirty-fifth Street Gate-house doors, windows, etc., Section 15	"	Charles W. Palmer	6,935 00
Cast-iron work, wrought-iron work, etc., New Croton Gate-house, Section 1	"	Coldwell, Wilcox & Co	16,057 02
Highways or roads, etc., at East Branch and Bog Brook Reservoirs	"	Clinton Stephens	90,851 69
Gate-house superstructure walls for Blow-off Chamber at Ardsley, Section 7	"	O'Brien & Clark	4,900 00
Cutting timber and clearing grounds, East Branch and Bog Brook Reservoirs	"	Pennell & O Hern	8,975 00
22.2' x 5' sluice-gates, etc., Sections 15 and 17	"	John Fox	14,190 00
3' x 4' sluice gates, etc., Pocantico, Ardsley and South Yonkers Gate-houses, Sections 4, 7 and 9	"	"	6,750 00
3' x 6' sluice-gates, etc., New Croton Gate-house, Section 1	"	"	21,900 00
Earth and masonry dam, Reservoir "M," on Titicus river, near Purdy's Station	30	Washburn, Shaler & Washburn	392,378 41
Gate-house superstructure at South Yonkers, Section 9	Final.	O'Brien & Clark	20,349 79
Gate-house superstructure, etc., for new gate chambers at Croton Dam, Section 1	21	Smith, Brown & Coleman	39,708 90
Combined stationary hoisting engines, etc., for Shaft 25, Section 12	Final.	Charles Peterson	11,250 00

SECTION.	ESTIMATE.	CONTRACTOR.	
Two pairs horizontal tubular boilers, etc., Shaft 25, Section 12...	Final.	West Point Manufacturing Co.....	$11,900 00
Earth and masonry dam, Reservoir "D".....	22	Michael S. Coleman.....	£2,£25 77
Auxiliary earth and masonry dam, near Craft's Station, Reservoir "D".....	22	"	44,990 22
Eleven head-house superstructures, etc, for the shafts.....	Final.	Breuchaud, Pennell & Co.....	40,251 28
Blow-off Shaft 24, Section A.....	4	John M. Waddle.....	1,644 91
" 24, "	15	John F. Gaynor, assignee of John M. Waddle	15,813 94
Two complete portable hoisting plants	Final.	West Point Manufacturing Company..	7,£00 00
Highway, retaining-walls, appurtenances, etc., Croton Dam.....	"	Augustine M. Newton.....	16,717 09
Grading, improving and fencing grounds, One Hundred and Thirty-fifth Street Gate-house.	11	Peter J. Moran.....	8,341 c6
Grading, improving and fencing grounds at several of the shafts	9	Hyman Levy and Thomas Quinn.....	8,882 92
Head-house and engine-room superstructure, etc., Shaft 25.....	4	John Peirce, assignee of W. H. Baker.	1,590 44
Two brick engine-houses for the portable hoisting plants.....	5	John Twiname.....	7,947 03

Agreements.

	ESTIMATE.	CONTRACTOR.	
Shaft 11C, Section 5.....	Final.	Brown, Howard & Co...	5,c00 00
Shaft 12C, Section 6.....	"	O'Brien & Clark.....	5,00c 00
Shaft 16½, Section 8	"	"	5,c00 09
Shaft 18½, Section 9	"	"	5,0c0 00
Shaft 19½, Section B.....	"	Heman Clark.....	5,000 00
Shaft 17½, Section 8.....	"	Thomas O'Hern.....	2,222 12
Culvert at Shaft 19, Section 9.....	"	O'Brien & Clark.....	4,893 74
" 20, Section B.....	"	Heman Clark.....	2,932 05
" 23, Section A	"	O'Brien & Clark.....	3,208 86
Crib Dock, near Shaft 25, Section 12..	"	Charles Peterscn.....	3,694 60
Ironwork—For Saw Mill River Blow-off, etc., Section 7.....	"	Coldwell, Wilcox & Co.....	1,962 57
Ironwork—For Pocantico Blow-off, etc., Section 4.....	"	"	144 11
Ironwork—For Tibbett's Brook Blow-off, etc., Section 9.....	"	"	144 11
Ironwork—For lining Shafts 22 and 23, Section A.....	"	"	3,463 43
Ironwork—For lining Shaft 20, Section B.....	"	"	2,663 28
Ironwork—For lining Shaft 28, Section 13.....	"	"	2,315 02
Ironwork—For lining Shaft 29, Section 14.....	"	"	2,358 57
Ironwork—For lining Shaft 24, Section A.....	"	The McNeal Pipe and Foundry Co....	987 32
Cast and wrought iron ladders for shafts, Sections 1 to 9 and B and A	"	Coldwell, Wilcox & Co.....	2,824 25
Roof, iron floor plates, etc., at Ardsley Gate-house, Section 7.....	"	"	3,326 70

	Estimate.	Contractor.		
Cast-iron special pipe lining and manhole covers, etc., Shaft 24, Section A	Final.	Coldwell, Wilcox & Co	$4.931 19	
Filling low ground, Shaft Site No. 12, Section 6	"	O'Brien & Clark	4,910 00	
Cave-in, Shaft 13, Section 7	"	"	5,000 00	
Laying 20" pipe along the incline adjacent to Shaft 24, Section A	"	"	2,895 83	
Grouting near Shaft 17½, on Section 8	"	"	4,427 50	
Grouting, Stations 778+00 and 779+30, Section 7	"	"	1,075 00	
Grouting on Section 13	"	Rogers, Shanly & Co	5,000 00	
Grouting near Shaft 30	"	Breuchaud, Pennell & Co	2,900 93	
Highway, trestle-work and bridges at Croton Dam, Section 1	"	Smith & Brown	4,500 00	
Sodding the South Yonkers embankment on Section 9	"	Rider & Dougherty	1,575 57	
Taking down and enlarging top of Shaft 11C, Section 5	"	C. L. Kalmbach	2,917 32	
Walls, foundations, etc., near blow-off chamber, Shaft 25, Section 12	"	Charles Peterson	2,233 12	
Frame head-house and engine-room at Shaft 25, Section 12	"	"	3,690 00	
Frame boiler-house and coal bin at Shaft 25, Section 12	"	"	3,635 00	
9" anti-friction pump and improved turbine wheel, etc., Croton Dam Gate-house, Section 1	"	Joseph Edwards & Co.	2,135 00	
6–2' x 5' sluice-gates at Bog Brook and Sodom Dams	"	John Fox	4,200 00	
Pivot gate, Bog Brook Dams 1 and 2.	"	Coldwell, Wilcox & Co	2,445 00	
Finishing Shaft 21	"	William H. Baker	1,660 81	
Fence at Shaft 24	"	Francis V. Smith	865 24	
				$123,138 24
Bailing, pumping and taking care of water on Section A			$1,309 50	
Pumping water in iron pipes, Section 12			6,063 65	
" " 13			5,405 00	
" " 14			7,935 00	
Iron pipe laid in tunnel, Section A			4,615 76	
" " B			980 50	
48-inch pipes at Shaft 11B			327 50	
48-inch stop-cock valves			4,500 00	
Ironwork, etc.—				
At shafts			18,083 04	
For gate-houses and blow-offs			16,677 88	
For dams			5,238 99	
Timber work, etc., at shafts and gate-houses			13,406 34	
Explorations under the Harlem river			4,384 26	
Experimental section, in concrete, at Shaft 18			185 25	
Extra work, etc., on Section 1			4,616 03	
" " 6			42 70	
" " 12			171 35	

Extra work, etc., on Section 14	$696 21	
" " 15	89 32	
" " 16	668 98	
" enlarging Shaft 11C	147 81	
" on the Pocantico Gate-house	287 44	
" on the eleven head-houses	220 00	
" on Dams Nos. 1 and 2	444 31	
Additional work, Section 9	49 37	
" " 12	65 73	
" " A	1,609 56	
" East Branch Reservoir Dam	1,497 03	
" Dams Nos. 1 and 2	213 12	
" Earth and Masonry Dam, Reservoir "M"	1,339 53	
" highways or roads, etc., at East Branch and Bog Brook Reservoirs.	3,095 00	
" Shaft 21	85 50	
" two brick engine-houses	897 00	
Removing solid rock in Harlem river, near Shaft 25	701 03	
Grading, etc., trenches, Quaker Bridge Dam site	150 00	
Grading and finishing the grounds adjacent Shaft 19⅝	125 00	
Surveys and topographical map, Croton water-shed	7,000 00	
Soundings south of One Hundred and Thirty-fifth street	931 18	
Sinking test pits—		
Titicus river and Reservoir "D" Dam sites	540 35	
Cornell Dam sites	63 56	
Hoisting-engines for shafts	1,440 00	
Coating interior of Aqueduct with cement	8,384 37	
Telephone line	4,995 62	
Preparing, pumping, etc., inverted siphon, sections	2,643 91	
Preparing the Aqueduct for permanent use	211 66	
Iron bridge on the East Branch of the Croton river	2,145 00	
Fencing around reservoirs, shaft-sites, etc	1,253 14	
		$141,933 48
Commissioners of Appraisal—Awards.		
Twenty-fourth Ward	$163,090 47	
Manhattan Island Section	802,230 93	
Westchester County	266,629 58	
Putnam County Section	508,278 075	
		1,740,229 05
Commissioners of Appraisal.		
City and County of New York	$98,932 42	
Westchester County	220,900 22	
Manhattan Island Section	78,461 30	
Putnam County Section	124,812 95	
		522,206 89
Total expenditures		26,537,446 49

Cr.		
Additional Water Stock	$25,545,000 00	
Premium Account	607,168 70	
Additional Water Fund—"Miscellaneous"	8,077 46	
Total receipts		$26,160,246 16
Balance, Comptroller's Account vs. Aqueduct Commissioners		377,200 33
		$26,537,446 49

Statement of Receipts and Expenditures of the Aqueduct Commissioners, September 30, 1892.

RECEIPTS.			
From Bonds Issued—			
Amount of bonds	$25,545,000 00		
Premiums on same	607,168 70		
		$26,152,168 70	
From proceeds of miscellaneous sales, etc		8,077 46	
Total receipts			$26,160,246 16
EXPENDITURES.			
Vouchers, pay-rolls, etc	$3,147,496 85		
Contracts, agreements, etc	21,069,643 88		
Land and land damages	57,869 82		
		$24,275,010 55	
Awards	$1,740,229 05		
Fees of Counsels, Commissioners, etc	522,206 89		
		2,262,435 94	
Total expenditures			26,537,446 49
Comptroller's balance vs. Aqueduct Commissioners			$3,777,200 33

On motion of Commissioner Scott, the same was ordered spread in full on the minutes and filed.

On motion of Commissioner Tucker, the minutes of stated meeting of October 5, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Wednesday, November 2, 1892, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8315 to 8330, inclusive, amounting to $2,955.19.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Committee also presented the following :

The Committee of Finance and Audit report :

That they have examined the bids and checks received October 26, 1892, for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York.

The checks, amounting to forty-two hundred dollars ($4,200) were correct, and transmitted to the Comptroller, and his receipt is on file.

The bids were found correct as to their formality, and the sureties proposed appear to be sufficient.

On motion of Commissioner Tucker, the same was ordered filed.

The Construction or Executive Committee recommended the adoption of the following resolution :

Resolved, That the contract for furnishing all materials and doing all work necessary for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of South East, Putnam County, New York, be and the same is hereby awarded to John E. Brooks, at his bid, viz. : For style "A," seven thousand six hundred and five dollars ; and for style "B," ten thou-

sand seven hundred and twenty-five dollars; it being less than the estimate of the Chief Engineer for doing said work.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That the Aqueduct Commissioners hereby recommend that, in accordance with the terms of the contract, the Chief Engineer elect style "B," for fencing the boundary of the East Branch Reservoir, in the Town of South East, Putnam County, New York.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, Computer Macrae Sykes is hereby recommended to the Civil Service Commission for examination for promotion to the grade of Leveler in the Engineer Corps of the Aqueduct Commissioners.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, an extension of the leave of absence heretofore granted to Rodman D. McRae Livingstone, without pay, is hereby granted for eight months from September 8, 1892, and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, and owing to the ending of the work of boring on the diamond drills, the services of the following-named persons are dispensed with as of October 28, 1892; and they are hereby honorably discharged from the service of the Aqueduct Commissioners:

George A. Hammond, Drill Foreman.	J. S. Lockwood, First Helper.
Michael Tierney, Assistant Foreman.	Baldwin Jones, Fireman.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the necessary alterations designed to perfect the drainage and ventilation of the One Hundred and Thirty-fifth Street Gate-house of the New Aqueduct are hereby ordered made under the direction of the Chief Engineer, at an expense not to exceed one thousand dollars; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott, and Cannon—4.

The Committee also presented the following communication received from the Chief Engineer:

NEW YORK, November 2, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I have found it necessary, in connection with the fencing of the shaft sites, to provide at a few places iron instead of wooden posts. The contractors having expressed their wish that the Aqueduct Commissioners should furnish them. I have asked bids for the same as follows, as they were not included in the original contract:

NAMES OF BIDDERS.	AMOUNT OF BIDS.	PRICE PER POST.
1. Coldwell-Wilcox Company	$107 50	$0 86
2. John Fox	113 00	904
3. M. J. Drummond	131 25	1 05
4. New Jersey Foundry and Machine Company	143 75	1 15
5. Carrere & Haas Iron Works	325 00	2 60

As their number cannot be ascertained in advance, I have provided for 125, and the accompanying bids are given for that number.

I would ask you to authorize me to procure as many more as will be found necessary during the prosecution of the work.

I do not think that more than 300 will be needed.

I am, respectfully,

A. FTELEY, Chief Engineer.

And recommended the adoption of the following resolution:

Resolved, That the Chief Engineer be and hereby is authorized and directed to contract with the lowest responsible bidder for furnishing iron posts at different shaft sites of the New Aqueduct, referred to in the above communication, for not less than one hundred and twenty-five nor more than four hundred posts, at a price not exceeding eighty-six cents for each post.

The same was adopted by the following vote:

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, J. A. Valles be and hereby is appointed Axeman in the Engineer Corps of the Aqueduct Commissioners, for duty under Division Engineer Wegmann, at a salary of sixty dollars per month.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, Benjamin L. Blauvelt is hereby promoted from Axeman to Rodman in the Engineer Corps of the Aqueduct Commissioners,

for duty under Division Engineer Wegmann, at a salary of seventy-five dollars per month, he having been certified by the Civil Service Commission as being eligible for such promotion.

On motion of Commissioner Tucker, the same was adopted.

The Secretary gave notice of the filing of a lien by Coldwell-Wilcox Company against John F. Gaynor, contractor, for building the blow-off at Shaft No. 24 of the New Aqueduct, amounting to $62.36.

Which was ordered filed.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

NOTE.—On Wednesday, November 9, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

NOTE.—On Wednesday, November 16, 1892, no quorum being present, the meeting was adjourned to Friday, the 18th instant, at 10.30 o'clock A. M.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Adjourned Meeting of the Aqueduct Commissioners, held at the office of the Comptroller of the City of New York, No. 280 Broadway, on Friday, November 18, 1892, at 10.30 o'clock A. M.

Present—The Comptroller, and Commissioners Duane, Tucker and Scott.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8332 to 8351, inclusive, amounting to $834.49; also of Vouchers Nos. 8352 to 8360, inclusive, being estimates for work done by contractors, amounting to $52,238.60; also Voucher No. 8363, for contractors' claim adjusted and settled, amounting to $2,000.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication received from the Chief Engineer, and recommended that the same be spread in full on the minutes and filed:

NEW YORK, November 10, 1892.

To the Honorable the Aqueduct Commissioners:

GENTLEMEN—In view of the fact that you have awarded the contract for fencing the boundary of the East Branch Reservoir to Mr. John E. Brooks on November 2, 1892, and in accordance with the recommendation of the Committee on Construction of the same date, I notify you that I hereby elect style "B" of the fence as described in the aforesaid contract and plans.

I am, respectfully,

A. FTELEY, Chief Engineer.

On motion of Commissioner Scott, the recommendation was approved.

The Committee also recommended the adoption of the following resolutions:

Resolved, That the action of the Chief Engineer in dispensing with the services of Edward J. Dougherty, employed as Laborer in the Engineer Corps on November 1, 1892, be and hereby is approved.

Resolved, That the action of the Chief Engineer in engaging the services of Julian Thornley as Laborer, at two dollars per day, be and hereby is approved.

On motion of Commissioner Scott, the same were adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in contracting with Coldwell-Wilcox Company for furnishing not more than four hundred galvanized-iron posts to be placed at different shaft sites of the New Aqueduct, at a price of eighty-six cents each, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, November 16, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I have taken possession, for the local engineering force at the New Croton Dam, of a small farm house, formerly belonging to Francis Larkin, situated on land taken by the City.

The building is uninhabitable, and with the assent of the President of the Aqueduct Commissioners, I have begun necessary repairs, the cost of which will amount to about $150.

This is submitted for your information, and an appropriation to the said amount is respectfully requested.

I am, respectfully,

A. FTELEY, Chief Engineer.

And recommended the adoption of the following resolution:

Resolved, That the above action of the Chief Engineer be and hereby is approved; and an appropriation of one hundred and fifty dollars is hereby made to cover the cost thereof.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the leave of absence heretofore granted to Assistant Engineer L. P. de Luze is hereby extended from November 10, 1892, to May 10, 1893, without pay; and until he shall be assigned to duty by the Chief Engineer.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of E. Underhill, being for storage of portable hoisting plant at Yonkers, N. Y., from May 1 to October 1, 1892, amounting to one hundred dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of the Armstrong Express Company, of Yonkers, N. Y., being for moving portable hoisting plant from Yonkers to Dunwoodie, N. Y., amounting to twenty-five dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of James Dougherty, being for one pipe-plug used in connection with shutting off the flow of water in the New Aqueduct, amounting to thirteen dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the accompanying bill for taxes due the Village of North Tarrytown, amounting to twenty-eight dollars and thirty-three cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preambles and resolution :

Whereas, At a meeting of the Aqueduct Commissioners, held on January 27, 1892, the following action was had :

" The Construction or Executive Committee report :

" That they have had under consideration the claim of Breuchaud, Pennell & Co., contractors, for work done on the iron-lined masonry aqueduct, near Shaft No. 30 of the New Aqueduct, and recommend the adoption of the following resolution :

" Resolved, That copies of the report of the Chief Engineer, dated February 17, 1891, relative to the claim of Breuchaud, Pennell & Co., as well as his letter of February 28, 1890, and a copy of the claim of said Breuchaud, Pennell & Co., be referred to the Comptroller ; and that he be advised that, in the opinion of the Aqueduct Commissioners, he will consult the best interests of the City if he should be able to settle and adjust said claim for a sum not to exceed two thousand dollars.

" On motion of Commissioner Tucker, the same was adopted."

And whereas, The Comptroller, under date of November 17, 1892, has advised the Aqueduct Commissioners as follows :

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
November 17, 1892.

General J. C. DUANE, *President Aqueduct Commission :*

DEAR SIR—Referring to resolution adopted by the Aqueduct Commission, at their meeting held January 27, 1892, in the matter of claim of Bruechaud, Pennell & Co., for work done on the

iron-lined masonry aqueduct, near Shaft No. 30 of the New Aqueduct, I desire to state that under advice of Counsel to the Corporation, and in accordance with the said resolution of the Aqueduct Commissioners, I have adjusted said claim at the sum of two thousand dollars.

I would therefore respectfully suggest that a proper resolution directing the preparation of a voucher in favor of Breuchand, Pennell & Co. for said sum of two thousand dollars be presented at the meeting of the Aqueduct Commissioners to-morrow, November 18, for their action.

Respectfully,

THEO. W. MYERS, Comptroller.

Resolved, That in accordance with the above a proper voucher be prepared for the sum of two thousand dollars ($2,000) in full settlement of the claim of Breuchand, Pennell & Co., contractors, for work done on the iron-lined masonry aqueduct, near Shaft No. 30 of the New Aqueduct, and the same is hereby approved and ordered certified to the Comptroller for payment; and an appropriation of said amount is hereby made to cover the same.

The same was adopted by the following vote:

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Scott—4.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

NOTE—On Wednesday, November 23, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their Office, No. 209 Stewart Building, on Wednesday, November 30, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker and Scott.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8364 to 8380, inclusive, and 8386 to 8396, inclusive, amounting to $1,167.12.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in dispensing with the services of the following-named Laborers, heretofore employed on the sanitary work in Reservoir "M," on the dates hereinafter mentioned, be and the same is hereby approved:

Martin Dwyer, November 19, 1892.	Eli Bradley, November 21, 1892.
Stephen A. Haynard, November 19, 1892.	Frank Russell, November 21, 1892.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, November 23, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—I submit herewith two bids received by Division Engineer McCulloh for stop-planks to be put up at the outlet of the fountain at Sodom Dam, viz.:

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, November 30, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—With the approval of the President of the Aqueduct Commissioners, I would recommend that two (2) spare covers be provided for the manhole openings at Shaft 25, in addition to the present ones.

The shaft is in excellent working order, and I do not foresee any change from the present condition of things ; but the perfect working of this part of the work is of so great importance for the welfare of the water supply that, in my opinion, nothing should be neglected to insure good work in all possible contingencies.

I have consequently prepared plans and asked bids for two spare covers—one standard and one auxiliary.

The bids are as follows :

	STANDARD COVER.	AUXILIARY COVER.	TOTAL BID.
1. McNeal Pipe and Foundry Company	$110 00	$225 00	$335 00
2. John Fox.....	131 00	236 00	367 00
3. Coldwell-Wilcox Company.....	183 00	190 00	373 00
4. New Jersey Foundry and Machine Company.....	201 00	209 00	410 00
5. Carrere & Haas Iron Works.	150 00	287 00	437 00

The lowest bidder on the standard cover is the McNeal Pipe and Foundry Company, at $110, owing, most probably, to the fact that they own the original patterns, which will enable them also to furnish the cover in a shorter time.

The lowest bidder on the auxiliary cover is the Coldwell-Wilcox Company, whose price is $190.

As these prices are reasonable and below my estimate, which was $130 and $210, respectively, I recommend that the work of making the standard cover be ordered of the NcNeal Pipe and Foundry Company, at their price of $110, and the work for the auxiliary cover be given to the Coldwell-Wilcox Company, at their price of $190.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolutions :

Resolved, That, upon the recommendation of the Chief Engineer, the work of providing a standard cover for the manhole openings at Shaft No. 25 of the New Aqueduct is hereby awarded to the McNeal Pipe and Foundry Company, at their bid of one hundred and ten dollars, it being the lowest received and less than the estimate of the Chief Engineer.

Resolved, That, upon the recommendation of the Chief Engineer, the work of providing an auxiliary cover for the manhole openings at Shaft No. 25 of the New Aqueduct is hereby awarded to the Coldwell-Wilcox Company, at their bid of one hundred and ninety dollars, it being the lowest bid received and less than the estimate of the Chief Engineer.

On motion of Commissioner Tucker, the same were adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of John Twiname, being for additional labor performed in grading and clearing grounds east and south of gate-house at Shaft No. 24, and on slope adjacent to gate-chamber near railroad west of Shaft No. 24, of the New Aqueduct, as per orders of the Chief Engineer, amounting to forty dollars and seventy cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Chief Engineer of this Commission has certified in writing, under date of November 23, 1892, that John Twiname has completely performed and carried out the provisions of the contract made by him with this Commission on the 29th day of August, 1892, for soiling, sodding and seeding the slopes and adjacent ground at Shaft 24 of the New Croton Aqueduct, and has stated, from actual measurements, the whole amount of work done and materials furnished under and according to the terms of said contract, and of the true value thereof; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by John Twiname under the contract above referred to, and direct that a proper voucher for the final payment for work done and materials furnished under said agreement be approved by the Aqueduct Commissioners and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Scott—4.

On motion of Commissioner Tucker, the minutes of meetings of October 13 and 26, and November 2, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Wednesday, December 7, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker and Scott.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8398 to 8406, inclusive, amounting to $355.43; also of Vouchers Nos. 8407 to 8410, inclusive, being estimates for work done by contractors, amounting to $8,039.15.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the action of the Chief Engineer in accepting the offer of M. S. Benedict for the use of four rooms in his house at Katonah, N. Y., for the purposes of the Croton River Division of the Engineer Corps, at the rate of twenty dollars per month from December 1, 1892, to June 1, 1893, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Levy & Quinn, contractors, for work done at Shafts Nos. 15½, 16 and 21 of the New Aqueduct and not included in the terms of their contract, amounting to fifty-eight dollars and eighty-five cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, December 7, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—In accordance with your instructions I have looked into the question of improving the construction of the roof and ventilation of the One Hundred and Thirty-fifth street Gate-house, and have prepared such specifications as would cover the work to be done.

Correspondence was opened with Messrs. Nicholson & Galloway, and with the three other parties whose bids are herewith submitted.

No bid was received from Messrs. Nicholson & Galloway.

These parties went to see the work, the nature of which was explained to them on the ground.

Names of Bidders.	Amounts Bid.
1. M. Halliday	$638 00
2. John Morrow	778 00
3. M. Harrison & Son	886 00

Mr. Halliday's bid appears to me reasonable, and I recommend that he be ordered to proceed with the work.

An appropriation for this work to the amount of $1,000 has already been made.

I am, respectfully,

A. FTELEY, Chief Engineer.

And recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the work of improving the construction of the roof and ventilation of the One Hundred and Thirty-fifth street Gate-house of the New Aqueduct is hereby awarded to M. Halliday at his bid of six hundred and thirty-eight dollars, it being the lowest bid received.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Chief Engineer of this Commission has certified in writing, under date of November 16, 1892, that John Twiname has completely performed and carried out the provisions of the contract made by him with this Commission on the 27th day of January, 1892, for building two brick engine-houses for the portable hoisting plants of the New Aqueduct, and has stated, from actual measurements, the whole amount of work done and materials furnished under and according to the terms of said contract, and of the true value thereof; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by John Twiname, under the contract above referred to, and direct that a proper voucher for the final payment for work done and materials furnished under said agreement be approved by the Aqueduct Commissioners and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Scott—4.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, December 2, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—Division Engineer Wegmann's party having been transferred to the Croton River Division, and inasmuch as the work on the Aqueduct is drawing to a close ; owing also to the fact that two new divisions of the work have been recently established at the New Croton Dam and at Katonah on the Croton river, it would be better for the regularity of the records to abolish the old division numbers, and describe the new arrangement of the work as follows :

1st. Brewster Dams Division, under the superintendence of Division Engineer Walter McCulloh.

2d. Carmel and Purdy's Dams Division, under the superintendence of Alfred Craven.

3d. New Croton Dams Division, under the superintendence of Charles S. Gowen.

4th. Croton River Division, under the superintendence of Edward Wegmann, Jr.

The work along the line of the Aqueduct for the shaft-sites, etc., remains under the supervision of Mr. Alfred Craven (office at Yonkers), for the lower district, as heretofore; and for the upper district, under the supervision of Mr. Charles S. Gowen (office at Sing Sing), as heretofore.

Mr. Edward Wegmann, Jr., having superintended the work at the blow-off for Shaft 24, is expected to return a final estimate for the same.

The work at Shaft 25, formerly under Mr. Wegmann, has been transferred to Mr. F. S. Cook, of this office, under my supervision.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That, in accordance with the foregoing recommendation of the Chief Engineer, the superintendence of the work on the line and dams of the New Aqueduct be modified and divided or embraced in divisions, as follows, the same to take effect from December 1, 1892:

1st. Brewster Dams Division: includes Sodom and Bog Brook Dams, under the superintendence of Division Engineer Walter McCulloh.

2d. Carmel and Purdy's Dams Division: includes Reservoirs "D" and "M," and lower district (office at Yonkers), on line of Aqueduct, under the superintendence of Division Engineer Alfred Craven.

3d. New Croton Dam Division: includes New Croton Dam and upper district on line of Aqueduct (office at Sing Sing), under the superintendence of Division Engineer Charles S. Gowen.

4th. Croton River Division: includes the work of surveys and preparations for the construction of the Muscoot Dam, and roads and bridges for the new reservoir on Croton river, under the superintendence of Division Engineer Edward Wegmann, Jr.

On motion of Commissioner Scott, the same was adopted.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

NOTE.—On Wednesday, December 14, 1892, no quorum being present, the meeting was adjourned to Thursday, December 15, 1892, at 3 o'clock P. M.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

Minutes of Adjourned Meeting of the Aqueduct Commissioners, held at the office of the Comptroller of the City of New York, No. 280 Broadway, on Thursday, December 15, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker and Scott.

The Committee of Finance and Audit reported their examination and audit of Vouchers Nos. 8411 to 8414, inclusive, being estimates for work done by contractors, amounting to $29,338.46; also of bills contained in Vouchers Nos. 8415 to 8424, inclusive, amounting to $508.28.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of Cortland, N. Y., School District No. 3, amounting to sixty-nine dollars and nine cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of New Castle, N. Y., School District No. 6, amounting to three dollars and eighty cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, December 15, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—At your last meeting you authorized me to ask bids from Messrs. Coldwell-Wilcox Company and Mr. John Fox for the construction of a new double gate in the Bog Brook Tunnel Gate-house.

I have since received the bids of these parties, as follows:

John Fox	$2,750 00
Coldwell-Wilcox Company	3,400 00

My estimate for the same was $3,000.

The bid of Mr. John Fox being reasonable, I would recommend that the contract be given to him.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the work of constructing a double gate in the Bog Brook Tunnel Gate-house is hereby awarded to John Fox, the lowest bidder, at his bid of two thousand seven hundred and fifty dollars, it being less than the estimate of the Chief Engineer.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer:

NEW YORK, December 15, 1892.

To the Honorable the Committee on Construction:

GENTLEMEN—Owing to the temporary stoppage of a large portion of Contractor M. S. Coleman's work at Carmel, I have cancelled for the present the assignment of Superintendents of Dam Construction P. J. Moynihan, I. S. Rossell, Gerald McMurray and A. J. Sparrow.

I have also, in accordance with your verbal authorization, detailed Messrs. Moynihan, Rossell and McMurray as Laborers, at $2.50 per day, to assist the Engineer on work of surveying in the reservoir.

The assignment of the above named employees was cancelled on the 13th instant, and the employment as Laborers of Messrs. Moynihan, Rossell and McMurray begun the same day.

I send herewith communications from the last three named employees, to the effect that they waive all claims for greater compensation during such employment as Laborers.

Your approval of my action in these matters is respectfully requested.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolutions:

Resolved, That the action of the Chief Engineer in cancelling the assignment of Superintendents of Dam Construction P. J. Moynihan, I. S. Rossell, Gerald McMurray and A. J. Sparrow, on the 13th instant, be and hereby is approved.

Resolved, That the action of the Chief Engineer in employing P. J. Moynihan, I. S. Rossell and Gerald McMurray as Laborers, for work in the surveying party at Reservoir "D," at two dollars and fifty cents per day, on the 13th instant, be and hereby is approved.

On motion of Commissioner Scott, the same were adopted.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

AQUEDUCT COMMISSION.

NOTE—On Wednesday, December 21, 1892, no quorum being present, the meeting was adjourned.

J. C. LULLEY, Secretary.

Minutes of stated Meeting of the Aqueduct Commissioners, held at the office of the Comptroller of the City of New York, No. 280 Broadway, on Wednesday, December 28, 1892, at 3 o'clock P. M.

Present—The Comptroller, and Commissioners Duane, Tucker and Scott.

The Construction or Executive Committee recommended the adoption of the following preamble and resolution :

Whereas, The Counsel to the Corporation has transmitted to the Aqueduct Commissioners, with his approval, a transcript of judgment, in an action entitled James Brown vs. The Mayor, Aldermen and Commonalty of the City of New York, for the sum of $270.92 ; therefore

Resolved, That a voucher be and hereby is ordered drawn in favor of James Brown for the sum of $272.23, being amount of judgment rendered in favor of said James Brown for salary due him while employed as an Inspector of Masonry on the New Aqueduct and costs taxed, and interest thereon from December 2 to 31, 1892, and certified to the Comptroller for payment.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Scott—4.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in dispensing with the services of Foreman Walter J. Sager, on the 16th instant, be and hereby is approved ; and he is hereby discharged from the service of the Aqueduct Commissioners, to take effect from and after December 16, 1892.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in cancelling the assignment to duty of Superintendent of Dam Construction Patrick Daly, on the 17th instant, be and hereby is approved.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, December 21, 1892.

To the Honorable the Committee on Construction :

GENTLEMEN—On October 22 last, Superintendent of Dam Construction Timothy Capper, who is an honorably discharged veteran of the late war, then assigned to duty at Titicus Dam, was ordered by the Division Engineer to report to the Chief Engineer on account of dereliction of duty.

In the middle of November last Mr. Capper called upon the Chief Engineer with a doctor's certificate showing that he had been sick.

On November 23, at the suggestion of the Chief Engineer, Mr. Capper put in his hands his resignation, which was presented to the Committee on Construction and laid on the table.

Subsequently Mr. Capper, in his communication addressed to the Aqueduct Commissioners and dated December 19 (herewith handed you), asked permission to withdraw his resignation, and asked to be placed on the eligible list without pay until assigned to duty.

This information is communicated for your consideration and action.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That Superintendent of Dam Construction Timothy Capper is hereby granted an indefinite leave of absence, without pay, and until he shall be reassigned to duty by the Chief Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of I. H. Dahlman, for span of horses furnished for the use of the Carmel and Purdy's Dams Division of the Engineer Corps, amounting to four hundred and eighty-five dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of John Twiname, contractor, for work done by order of the Chief Engineer at Dunwoodie, New York, outside of the terms of his contract, amounting to fourteen dollars and seventy-five cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of the Yonkers City Ice Co., for furnishing ice to the Yonkers office from June 6 to September 1, 1892, amounting to thirty-two dollars and thirty-six cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Charles Kelley for moving furniture, safe and other belongings of the former Fifth Division of the Engineer Corps, to the Stewart Building and Melrose Station, N. Y., amounting to thirty dollars, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That the accompanying bill for taxes due the Town of Mount Pleasant, N. Y., School District No. 2, amounting to twelve dollars and forty-nine cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of P. J. Moran for work done outside of the terms of his contract in strengthening the fence at the One Hundred and Thirty-fifth Street Gate-house of the New Aqueduct, amounting to two hundred and fifty-six dollars and seventy-three cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution:

Resolved, That, upon the recommendation of the Chief Engineer, and under the provisions of the present lease, the premises occupied for office purposes at Sing Sing, N. Y., be re-leased from November 1, 1892 to May 1, 1893, at forty dollars per month.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, Application has been made by John E. Brooks, contractor, for an extension of time for the completion of the contract for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge, in the Town of Southeast, Putnam County, New York, and the Chief Engineer having recommended that an extension of time to May 1, 1893, be granted; therefore

Resolved, That the Aqueduct Commissioners hereby grant to John E. Brooks, contractor, an extension of time to May 1, 1893, in which to complete the contract above referred to, providing

his bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to him as further time for the performance of said contract.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Scott - 4.

The Committee also recommended the adoption of the following preamble and resolution:

Whereas, Application has been made by M. S. Coleman, contractor, for an extension of time for the completion of the contracts for building an earth and masonry dam for "Reservoir D," on the west branch of Croton river, near Carmel, New York, and for building an auxiliary earth and masonry dam, near Craft's Station, for "Reservoir D," Town of Carmel, Putnam County, New York, and the Chief Engineer having recommended that an extension of time to August 1, 1893, be granted : therefore

Resolved, That the Aqueduct Commissioners hereby grant to M. S. Coleman, contractor, an extension of time to August 1, 1893, in which to complete the contracts above referred to, providing his bondsmen shall, within ten days from the date hereof, enter into stipulations continuing their obligations for and during the completion of said contracts under said extension of time, which is hereby allowed to him as further time for the performance of said contracts.

The same was adopted by the following vote :

Affirmative—The Comptroller, and Commissioners Duane, Tucker, and Scott—4.

The Committee also recommended that the resolution adopted on November 1, 1892, promoting Benjamin L. Blauvelt, from Axeman to Rodman, in the Engineer Corps of the Aqueduct Commissioners, be reconsidered and amended so as to read as follows :

Resolved, That, upon the recommendation of the Chief Engineer, Benjamin L. Blauvelt is hereby promoted from Axeman to Rodman, in the Engineer Corps of the Aqueduct Commissioners for duty under Division Engineer Wegmann, at a salary of seventy-five dollars per month, he having been certified by the Civil Service Commission as being eligible for such promotion ; the same to take effect from and after January 1, 1893.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following preamble and resolution :

Whereas, The Chief Engineer of this Commission has certified in writing, under date of December 28, 1892, that Sullivan, Rider & Dougherty have completely performed and carried out the provisions of the contract made by them with this Commission on the 30th day of December, 1887, for building a dam and work connected therewith, on the east branch of the Croton river, in the Town of Southeast, Putnam County, New York, and has stated, from actual measurements, the whole amount of work done and materials furnished under and according to the terms of said contract, and of the true value thereof ; now, therefore, be it

Resolved, That the Aqueduct Commissioners do accept the work done and materials furnished by Sullivan, Rider & Dougherty, under the contract above referred to, and direct that a proper

voucher for the final payment for work done and materials furnished under said agreement be approved by the Aqueduct Commissioners, and certified to the Comptroller for payment.

The same was adopted by the following vote:

Affirmative—The Comptroller, and Commissioners Duane, Tucker and Scott—4.

The Committee of Finance and Audit reported their examination and audit of bills contained in Vouchers Nos. 8428 to 8448, inclusive, amounting to $1,159.94, and of Voucher No. 8449, being for judgment rendered in favor of James Brown, late Inspector of Masonry, amounting to $272.23.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Comptroller, under date of October 31, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Reservoir "M"	$593 05
Cornell Dam	150 00
Reservoir "D"	320 00
Reservoir "I"	209 68
Double Reservoir "I"	450 00

—leaving a balance to the credit of Additional Water Fund of $94,056.50; also stating that on October 29, 1892, bonds had been issued for the credit of the Additional Water Fund amounting to $100,000.

Which was ordered entered upon the books of the Commission and filed.

The Comptroller, under date of November 30, 1892, gave notice of the issue of warrants for the payment of vouchers not certified to by the Aqueduct Commissioners, for

Cornell Dam	$300 00
Reservoir "M"	3,358 45
Reservoir "I"	30 00
New York County Section	1,090 00
Cornell Dam	512 00

—leaving a balance to the credit of Additional Water Fund of $94,536.48; also stating that bonds had been issued for the credit of the Additional Water Fund as follows:

November 7, 1892	$200,000 00
November 22, 1892	150,000 00

Which was ordered entered upon the books of the Commissioners and filed.

On motion of Commissioner Tucker, the minutes of meetings of November 18 and 30, December 7 and 15, 1892, were ordered approved.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

INDEX.

A.

Additional Water Fund— PAGE

Notice of issue of bonds to credit of.....21, 38, 52, 65, 96, 105, 128, 159, 193

Alderson, H. B. (Rodman)—

Discharged 30

Allen, H. C. (Assistant Engineer)—

Discharged 30

Appointment—

Of H. R. Denny, Joseph Kenny, James Connolly and James Bennett, Axemen, revoked 28–29

Julius C. Lulley, as Secretary of Aqueduct Commissioners..... 36, 40

Ernest A. Wolff, as Auditor 41

John D. Hoffman and Edward J. Dougherty, as Laborers..... 64

Winfred H. Roberts and Eckford C. DeKay, as Laborers..... 107

Edward Mezger, as Skilled Laborer..... 108

Charles A. Thomas, as Laborer 125

William James, as Journeyman Machinist; Joseph Hamilton, Thomas Jenkins, David Hartigan, John Crowley, as Firemen; and Robert Harper, Timothy Brockley, James Croby, Patrick Brady, Patrick Keenan, Martin Dwyer, Eli Bradley, Frank Russell, Stephen A. Hynard, as Laborers..... 132

Daniel Reardon, as Laborer..... 134

William A. Barrett, as Foreman; Stephen Sutton, P. Sutton and Thomas Terrell, as Laborers 138

E. L. Ferris, as Laborer..... 139

Orlando Barrett, as Teamster..... 139

Samuel Hopkins, as Laborer..... 149

J. A. Valles, as Axeman..... 171

Julian Thornley, as Laborer..... 174

John J. Hanney, as Janitor..... 179

Appropriations—

$5,000 for expenses of preparing, etc., a review and report of the work of the Commission..... 27

$39, additional cost of printing plans of New Croton Dam..... 34

Appropriations— PAGE

$150 for additional masonry foundations for engine-houses at South Yonkers and Pocantico 46

$33, $378.01 and $125, for work at Sodom and Bog Brook Dams 46–47

$168.59 for work on Manhattan Island Section 49

$200 for printing copies of maps of Croton Water-shed 79

$400 for trolleys and "I" beams for Bog Brook Reservoir 102

$35 additional, for blue print copies of defective work on Aqueduct 103

$342.75 for lithographing contract drawings of New Croton Dam 103

$100 for lithographing contract drawings of new highways at Reservoir "M" 108

$500 for measuring weir at Croton Dam Gate-house 126

$747 additional, for masonry foundations for engine-houses at Dunwoodie and Pocantico 127

$444.31 for extra work, etc., at Bog Brook Dams 127

$420 for screens at Croton Dam 134

$1,000 for perfecting drainage and ventilation of One Hundred and Thirty-fifth Street Gate-house 170

$150 for repairs to New Croton Dam office 174

Aqueduct Commissioners—

Request Comptroller to raise funds for use of 1, 72, 155

Request Comptroller to pay to contractors moneys withheld on account of delay of work 6

Accept sluice gates for Sodom and Bog Brook Dams 7

Consent to assignment of contract for head-house superstructure, etc., at Shaft No. 25, from William H. Baker to John Peirce 7, 37

Grant extension of time to Smith, Brown & Coleman, to complete gate-house superstructure at Croton Dam 10

Direct Chief Engineer and Secretary to prepare a review and report of the work of the Commission to January 1, 1891 27

Grant extension of time to Washburn, Shaler & Washburn, to complete Reservoir "M" 34

Accept resignation of John C. Sheehan, Secretary, and appoint Julius C. Lulley as Secretary pro tem 36

Appoint Julius C. Lulley as Secretary 40

Authorize Chief Engineer to make necessary change in location of offices on line of Aqueduct 51

Award contract for additional fencing at Croton Gate-house to John Fox 56

Approve action of Chief Engineer in employing Stephen Whisten, Jr., for information to be used for litigation on Section 6 65

Award contract for temporary fence in vicinity of Shaft No. 26 to John Twiname 68

Approve form of contract, etc., for New Croton Dam, and direct advertisement for proposals 69

Grant extension of time to Sullivan, Rider & Dougherty to complete East Branch Reservoir 72

Aqueduct Commissioners— PAGE

Accept bid of John M. Burnet's Sons for binding Quaker Bridge Dam reports. 76
Award contract for iron work at Shafts Nos. 24 and 25 to John F. Rourke..... 76
Accept bid of New Jersey Foundry and Machine Company, for iron doors at East Branch Reservoir..... 80
Grant extension of time to Levy & Quinn to complete grading, etc., of grounds at shafts..... 80, 150
Grant extension of time to John F. Gaynor to complete blow-off at Shaft No. 24 .... 80, 138
Award contract for soiling, sodding, etc., at Shaft No. 24, to John Twiname..... 94
Postpone opening of bids for New Croton Dam..... 95
Grant extension of time to David R. Paige & Co., to complete Dams Nos. 1 and 2.. 98
Open bids for construction of New Croton Dam..... 100, 123
Grant extension of time to P. J. Moran, to complete contract for grading, etc., grounds of One Hundred and Thirty-fifth Street Gate-house 103
Award contract for fence for highway bridge at Pocantico to New Jersey Foundry and Machine Company..... 108
Award contract for six trolley trucks for Brewster to M. J. Drummond.. 108
Accept highway, retaining walls, etc., at Croton Dam..... 109
Authorize Committee of Finance and Audit to certify to Comptroller vouchers, etc.. 118
Reject all bids received for constructing the New Croton Dam, and direct re-advertisement for proposals..... 121
Award contract for constructing New Croton Dam to James S. Coleman..... 129
Award contract for iron cover for Shaft No. 11C to John Fox 133
Accept fence at Shaft No. 24..... 133
Award work of furnishing screens at Croton Dam to C. W. Palmer..... 134
Request Comptroller to release to David R. Paige & Co. $10,000 out of the 10 per cent. retained under contract for Dams Nos. 1 and 2 140
Award contract for trolleys, etc., for New Croton Gate-house to Carrere and Haas Iron Works..... 144
Approve forms of contract, etc., for fencing boundary of East Branch Reservoir, north of Milltown Bridge, and direct advertisement for proposals..... 147
Accept work of grading, etc., grounds at One Hundred and Thirty-fifth Street Gate-house..... 147
Consent to assignment by Sullivan, Rider & Dougherty, contractors for East Branch Reservoir, to Clinton L. Stephens and Ellen A. Sullivan, of all rights and interest to undivided profits and retained percentages under said contract..... 150
Open bids for fencing boundary of East Branch Reservoir, north of Milltown Bridge 153
Award work of furnishing one 24-inch valve for Titicus Dam to John Fox..... 156
Direct that proper vouchers be prepared for interest on amounts deducted from final estimates of Sections 7, 8, 9, "A" and "B" 156
Award contract for fencing East Branch Reservoir to John E. Brooks..... 169
Elect Style "B" for above fencing..... 170
Award work of building corrugated iron sheds for storing stop-planks to H. W. Dale 179

Aqueduct Commissioners— PAGE

Award work of furnishing two manhole covers at Shaft No. 25 to McNeil Pipe and Foundry Company and Coldwell-Wilcox Company 180

Accept work of soiling, sodding, etc., at Shaft No. 24 181

Award work of improving roof and ventilation of One Hundred and Thirty-fifth Street Gate-house to M. Halliday 184

Accept work of construction of two brick engine-houses 184

Make new designation of divisions of Aqueduct, dams, etc., and assign Division Engineers to same 185

Award work of constructing double gate at Bog Brook Tunnel Gate-house to John Fox 188

Accept work of construction of East Branch Reservoir 192

Armstrong Express Company—

Bill for moving portable hoisting plant, approved 175

Assistant Engineer—

B. R. Value, granted leave of absence 26, 138, 143

H. R. Wheeler and H. C. Allen, dismissed 30

Resignation of E. P. Roberts, accepted 42

L. P. De Luze, granted leave of absence 64, 174

B. R. Value, reassigned to duty 64

Auditor—

Ernest A. Wolff, appointed 41

Axemen—

William Barry, discharged 28

Appointments of H. R. Denny, Joseph Kenny, James Connolly and James Bennett, revoked 28–29

William Horton, discharged 29

Francis F. Hine, certified for examination for promotion 132

J. A. Valles, appointed 171

Benjamin L. Blauvelt, promoted to Rodman 172, 192

B.

Bailey, Henry (Laborer)—

Discharged 138

Baker, William H. (Contractor)—

Applies for consent to assign contract for head-house superstructure at Shaft No. 25 to John Peirce 3

Same granted 7, 37

Barrett, Orlando—

Assigned to duty as Teamster 139

Discharged 155

PAGE

Barrett, William A.—
Employed as Foreman 138
Discharged 155

Barry, William (Axeman)—
Discharged 28

Bartlett, Francis—
Files lien against Levy & Quinn 118

Bartow, Pierrepont, (Assistant Engineer)—
Voucher, for judgment rendered, for salary 59

Beattie, John—
Files lien against David R. Paige & Co 130

Benedict, M. S.—
Action of Chief Engineer in renting four rooms of, for use of Engineer Corps at Katonah, approved 183

Bennett, James—
Appointment as Axeman revoked 29

Best, Sylvester F.—
Repayment of taxes to 26

Blauvelt, Benjamin L. (Axeman)—
Promoted to Rodman 172, 192

Blow-off at Shaft No. 24—
John F. Gaynor, assignee of John M. Waddle, granted extension of time to complete. 80, 138

Blumenthal, Herrmann (Clerk)—
Promoted to second grade 27
Salary increased 95

Bog Brook Dam (See also "Dams 1 and 2")—
Contract for iron beams, etc., at, awarded 2
Sluice gates, etc., for, accepted 7
Opening of tunnel gate to 25
Accident to machinery at; Chief Engineer to order spare gear for 27
Bill of Coldwell-Wilcox Company, for additional work at, approved 47
Appropriation for purchase of trolleys and "I" beams for 102
Contract for completion of fence at, awarded to John McLoughlin 125
Appropriation for sheet piling, draining, etc., at 127
Placed in charge of Walter McCulloh, Division Engineer 185
John Fox awarded work of furnishing double gate for gate-house at 188

Bog Brook Reservoir—
Schedule of capacity 157

PAGE

Bosworth, G. B. (Clerk)—
Certified to Civil Service for examination for promotion 97

Bradley, Eli—
Employed as Laborer 133
Discharged 177

Brady, Patrick—
Employed as Laborer 132

Breuchaud, Pennell & Co. (Contractors)—
Papers in relation to claim of, for work on iron-lined masonry Aqueduct, near shaft No. 30, referred to Comptroller 10
Bill for extra work on head-houses, approved 33
Claim for work on iron-lined masonry Aqueduct, near Shaft No. 30, adjusted 175

Brewster—
M. J. Drummond awarded contract for six trolley trucks to be delivered at 108

Brewster Dams Division (includes Sodom and Bog Brook Dams)—
Placed in charge of Walter McCulloh, Division Engineer 185

Brick Engine-houses—
John Twiname, Contractor, to furnish additional masonry foundations 46
Appropriations for additional masonry foundations 46, 127
Completion and acceptance of 184

Brockley, Timothy—
Employed as Laborer 132

Brooks, John E.—
Bid for fencing boundary of East Branch Reservoir 154
Award contract for above 169
Commissioners elect Style "B" for above fencing 170
Granted extension of time on above contract 191

Brown, H. H.—
Bid for construction of New Croton Dam 101, 124

Brown, James (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 189

Burnet's Sons, John M.—
Bid for binding Quaker Bridge Dam Reports, accepted 76

Byrne, John A. (Assistant Draughtsman)—
Chief Engineer reports transfer to Department of Public Works 132

Byrnes, Thomas (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 31

C.

PAGE

Capper, Timothy (Superintendent of Dam Construction)—
Assignment to duty ceases 35
Reassigned to duty 40, 155
Granted indefinite leave of absence 190

Carmel, Town of—
Reimbursement of taxes paid by former owners of land in 26

Carmel and Purdy's Dams Division (includes Reservoirs "D" and "M," and lower district of Aqueduct)—
Alfred Craven, Division Engineer, placed in charge of. 185
Bill of I. H. Dahlman for span of horses for use at, approved 190

Carpenter, F. W. (Leveler)—
Discharged. 30

Carpenter, John (Laborer)—
Discharged. 51

Carrere & Haas Iron Works—
Bid for furnishing iron cover at Shaft No. 11C. 133
Awarded contract for trolleys, etc., at New Croton Gate-house. 144
Bid for iron posts for fencing shaft sites 171
Bid for manhole cover at Shaft No. 25. 180

Chainman—
George C. Marrin, discharged 30

Chief Engineer (A. Fteley)—
Recommends consent to assignment of contract for head-house, etc., at Shaft No. 25.. 3
Certifies completion of two feet by five feet sluice-gates for Bog Brook and Sodom Dams 7
Authorized to have E. Fowler paint fence at Auxiliary Dam, Reservoir "D" 10
Reports formation of two additional survey parties for Reservoir "D" 19
Reports on flow of water at Sodom Dam..25, 35, 39, 43, 45, 63, 67, 71, 75, 79, 93, 97, 101, 105
Directed to prepare report of the work of the Commission 27
Authorized to provide spare gear for gates at Bog Brook and Sodom Dams. 28
Requests additional appropriation for printing plans of New Croton Dam 34
Authorized to contract with John Twiname for increased rubble masonry foundations for the engine-houses 46
Communication as to relocation of the various offices on the Aqueduct; authorized to carry out suggestions mentioned 50
Submits bids for additional fencing at Croton Gate-house 55
Action in employing Stephen Whisten, Jr., for information, etc., to be used in litigation for Section 6, approved 64

Chief Engineer (A. Fteley)— PAGE

Submits bids for temporary fence in vicinity of Shaft No. 26 68
Recommends extension of time to contractors to complete East Branch Reservoir.... 72
Submits bids for iron work at Shafts Nos. 24 and 25 76
Submits bids for soiling and sodding at Shaft No. 24 94
To calculate and tabulate bids received for construction of New Croton Dam..... 101, 124
Authorized to order of McLoughlin & Reilly macadamized road at Shaft No. 24..... 103
Authorized to have Levy & Quinn construct road in Town of Greenburgh, through grounds of Mount Hope Cemetery..... 104
Submits bids for fence for highway bridge at Pocantico, and for six trolley trucks to be delivered at Brewster 108
Recommends that work of completing fence at Bog Brook be awarded to John McLoughlin..... 125
Recommends establishment of measuring weir at Croton Dam Gate-house..... 126
Action in having additional masonry and work done necessary to complete foundations of engine-houses at Pocantico and Dunwoodie, approved..... 127
Recommendation that appropriation be made to pay for extra labor, etc., at Bog Brook Dams, approved 128
Reports that examinations of sanitary conditions of Croton Water-shed are being continued 131, 137
Reports transfer of John A. Byrne, Assistant Draughtsman, to Department of Public Works 132
Submits bids for iron cover for Shaft No. 11C 133
Reports upon the advisability of releasing to David R. Paige & Co. a portion of the money retained on contract for Bog Brook Dams 140
Submits bids for trolleys, etc., for New Croton Gate-house..... 143
Reports list of laborers who have been, since August 1, 1888, and of those who now are, in the employ of the Aqueduct Commissioners..... 144
Given authority to build bridge at site of New Croton Dam 147
Certifies completion of contract for grading, etc., grounds at One Hundred and Thirty-fifth Street Gate-house..... 147
Directed to tabulate bids received for fencing boundary of East Branch Reservoir... 154
Submits bids for 24-inch valve for Titicus Dam..... 156
Submits schedules of capacities of reservoirs on Bog Brook and east branch of the Croton river..... 157, 158
Authorized to contract for iron fence posts for use in fencing shaft sites..... 171
Elects Style "B" for fencing the boundary of the East Branch Reservoir..... 173
Action in contracting with Coldwell-Wilcox Company for iron posts for above, approved..... 174
Submits bids for stop-planks for Sodom Dam..... 177
Requests that Commissioners withdraw from Commissioners of the Sinking Fund certain parcels of land required for access to Shaft Site No. 8 178
Submits bids for corrugated iron sheds to store stop-planks at Brewster..... 179

PAGE

Chief Engineer (A. Fteley)—
Submits bids for two spare manhole covers at Shaft No. 25 ... 180
Certifies completion of work of soiling, sodding, etc., Shaft No. 24 ... 181
Action in renting four rooms of M. S. Benedict at Katonah for use of Engineer Corps, approved ... 183
Submits bids for improving the construction of roof and ventilation of the One Hundred and Thirty-fifth Street Gate house ... 183
Certifies completion of contract for two brick engine-houses ... 185
Submits new designation for divisions of Aqueduct, dams, etc., with recommendations 185
Submits bids for double gate at Bog Brook Tunnel Gate-house ... 187
Certifies completion of contract for East Branch Reservoir ... 192

Civil Service Commission—
George B. Bosworth, Clerk, certified to ... 97
A. S. Nye, Leveler, certified to ... 126
Francis F. Hine, Axeman, certified to ... 132
Macrae Sykes, Computer, certified to ... 170

Claffy, John—
Substituted as bondsman on contract of Sullivan, Rider & Dougherty ... 2

Claims Adjusted—
George A. Gifford, Inspector of Masonry, for salary ... 9
John H. Curran, Axeman, for salary ... 128
John J. Kearney, Inspector of Masonry, for salary ... 135
William A. Jaycox, Inspector of Masonry, for salary ... 140
Breuchaud, Pennell & Co., contractors for iron-lined masonry Aqueduct, near Shaft No. 30 ... 175–176

Clerks—
Jefferson Groub and Herrmann Blumenthal, promoted to second grade ... 27
Salaries of above increased ... 95
George B. Bosworth, certified to Civil Service for examination for promotion ... 97

Coldwell-Wilcox Company—
Awarded contract for iron beams, etc., for Sodom and Bog Brook Reservoirs and Shaft No. 21 ... 2
To provide new machinery at Sodom and Bog Brook Dams ... 27
Bills for additional work at Sodom and Bog Brook Dams, approved ... 46–47
File lien against David R. Paige & Co ... 52
Bid for fencing at Croton Gate-house ... 56
Bid for iron work at Shafts Nos. 24 and 25 ... 76
Bid for iron doors at East Branch Reservoir ... 80
Bid for fence for highway bridge at Pocantico Gate-house, and six trolley trucks to be delivered at Brewster ... 108
Bid for iron cover at Shaft No. 11C ... 133
Bid for trolleys, etc., for New Croton Gate-house ... 143

PAGE

Coldwell-Wilcox Company—
Bills for iron work, etc., at Sodom and Bog Brook, approved 144
Bid for furnishing one 24-inch valve for Titicus Dam 156
Bid for furnishing iron fence posts for fencing shaft sites..... 171
File lien against John F. Gaynor..... 172
Awarded contract for iron posts for fencing boundary of East Branch Reservoir..... 174
Awarded contract for auxiliary manhole cover at Shaft No. 25 to..... 180
Bid for double gate at Bog Brook Tunnel Gate-house..... 188

Coleman, James S.—
Bid for construction of New Croton Dam..... 124
Awarded contract for same..... 129

Coleman, Michael S.—
Bid for construction of New Croton Dam..... 101
Granted extension of time on contracts for dams for Reservoir "D"..... 192

Commissioner of Public Works (Thomas F. Gilroy)—
Transmits forms of contract, etc., for New Croton Dam..... 69
Reports, as member of Special Committee, on bids received for construction of the New Croton Dam..... 119–120
Transmits forms of contract, etc., for fencing the boundary of the East Branch Reservoir, north of Milltown Bridge..... 147

Commissioners of the Sinking Fund—
President directed to withdraw from, certain parcels of land required for access to Shaft Site No. 8..... 178

Committee of Finance and Audit—
Bids received for construction of New Croton Dam, referred to..... 101, 124
Authorized to certify to Comptroller vouchers, estimates and pay-rolls..... 118
Report examination of bids and checks received for constructing New Croton Dam.. 121, 129
Bids received for fencing boundary of East Branch Reservoir, referred to 154
Report examination of above bids..... 169

Comptroller—
Requested to raise funds for use of Commissioners..... 1, 72, 155
To pay to contractors moneys withheld as damages by reason of delay in completion of work..... 6
Adjusts claim of Inspector George A. Gifford for salary 9
Claim, etc., of Breuchaud, Pennell & Co., for work on iron-lined masonry Aqueduct, near Shaft No. 30, referred to..... 10
Gives notice of issue of warrants not certified to by Commissioners 21, 38, 52, 65, 96, 105, 128, 159, 193
Gives notice of issue of bonds to credit of Additional Water Fund..... 21, 38, 52, 65, 96, 105, 128, 159, 193
Requested to pay to contractors the interest on moneys withheld from them on account of delay of work..... 44

PAGE

Comptroller—
Protests against construction of the New Croton Dam 70
Committee of Finance and Audit authorized to certify vouchers, estimates and pay-rolls to 118
Reports, as member of Special Committee, on bids received for constructing New Croton Dam 119, 120
Vote recorded in affirmative on awarding contract for New Croton Dam 129
Reports adjustment of claim of Breuchaud, Pennell & Co., contractors for iron-lined masonry Aqueduct, near Shaft No. 30 175–176

Computer—
O. L. Ingalls, resignation accepted 30
W. A. Hoe, Jr., resignation accepted 102, 109
Macrae Sykes, recommended for examination for promotion 170

Connolly, James—
Appointment as Axeman revoked 28

Construction or Executive Committee—
Report on bids received for construction of New Croton Dam, and recommend rejection of same 119
Recommend settlement of claim of Breuchaud, Pennell & Co., contractors for iron-lined masonry Aqueduct, near Shaft No. 30 175

Contract—
Completion of, for 2 feet by 5 feet sluice gates at Bog Brook and Sodom Dams 7
Consent to assignment of, for head-house and engine-room superstructure at Shaft No. 25 to John Peirce 7, 37
Smith, Brown & Coleman granted extension of time to complete, for gate-house superstructure at Croton Dam 10
Washburn, Shaler & Washburn granted extension of time to complete, for Reservoir "M" 34
For additional fencing at Croton Gate-house, awarded to John Fox 56
For temporary fence in vicinity of Shaft No. 26, awarded to John Twiname 68
Forms of, for New Croton Dam approved and adopted 69
Sullivan, Rider & Dougherty granted extension of time to complete, for East Branch Reservoir 72
For binding reports on Quaker Bridge Dam, awarded to John M. Burnet's Sons 76
For iron work at Shafts Nos. 24 and 25, awarded to John F. Rourke 76
Levy & Quinn granted extension of time to complete, for grading, etc., grounds at shafts 80, 150
John F. Gaynor granted extension of time to complete, for blow-off at Shaft No. 24 .. 80, 138
For iron doors at East Branch Reservoir, awarded to New Jersey Foundry and Machine Company 80
For soiling, etc., at Shaft No. 24, awarded to John Twiname 94
David R. Paige & Co., granted extension of time to complete, for Dams 1 and 2 98

Contract— PAGE
P. J. Moran granted extension of time to complete, for grading, etc., grounds at One Hundred and Thirty-fifth Street Gate-house 103
For fence for highway bridge at Pocantico awarded to New Jersey Foundry and Machine Company 108
For six trolley trucks at Brewster awarded to M. J. Drummond 108
Completion of, for highways, retaining walls, etc., at Croton Dam 109
For New Croton Dam awarded to James S. Coleman 129
For iron cover for Shaft No. 11, awarded to John Fox 133
Completion of, for fence at Shaft No. 24 133
For trolleys, etc., for New Croton Gate-house, awarded to Carrere & Haas Iron Works 144
Forms of, for fencing boundary of East Branch Reservoir, north of Milltown Bridge, approved and adopted 147
Completion of, for grading, etc., grounds at One Hundred and Thirty-fifth Street Gate-house 147
For fencing boundary of East Branch Reservoir, awarded to John E. Brooks 169
For iron posts for above fencing, with Coldwell-Wilcox Company, approved 174
Completion of, for soiling, sodding etc., at Shaft No. 24 181
Completion of, for East Branch Reservoir 192

Cook, William N. (Superintendent of Dam Construction)—
Assignment to duty ceases 35

Corkey, Michael (Axeman)—
Voucher, for judgment rendered, for salary 2

Cornell Dam (see "New Croton Dam").

Cornell, J. N. Hayward (Leveler)—
Discharged 31
Discharge reconsidered and resignation accepted 52

Cortland, Town of—
Bill for taxes, School District No. 3, approved 187

Costello, John (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 20

Counsel to the Corporation—
Opinion as to retention of moneys due contractors, for damages caused by delay of work 5
Opinion as to interest on amounts deducted from final estimates 44, 156

Craven, Alfred (Division Engineer)—
Directed to form additional survey parties for laying out roads in Reservoir "D" .. 19
Placed in charge of construction of Reservoir "M" 150
Placed in charge of Carmel and Purdy's Dams Division, consisting of Reservoirs "D" and "M" and lower district of Aqueduct 185

PAGE

Creuzbaur, Robert W. (Draughtsman)—
Discharged 23
Dismissal reconsidered and resignation accepted 46

Croby, James—
Employed as Laborer 132

Crosby, A. L. (Superintendent of Dam Construction)—
Assignment to duty ceases 35
Reassigned to duty 40, 155

Croton Dam—
Completion and acceptance of highway, retaining walls, etc., at 109
Final estimate for above, approved 122
Appropriation for measuring weir at gate-house, at 127
Work of furnishing screens at, awarded to C. W. Palmer 134

Croton River Division (includes surveys, etc., for construction of Muscoot Dam and roads and bridges for new reservoir on Croton river)—
Offices for, rented at Katonah 183
Placed in charge of Edward Wegmann, Jr., Division Engineer 185

Croton Water-shed—
Appropriation of $200 for printing copies of map of 79
Chief Engineer reports that examination of sanitary condition of, is being continued. 131, 137

Crow, Jacob E.—
Bills for storage of portable hoisting plant, approved 26, 122

Crowley, John—
Employed as Fireman 132

Crumie, William H. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 32

Curran, John H. (Axeman)—
Voucher, for claim adjusted, for salary 128

Cusno, George—
Bid for fencing boundary of East Branch Reservoir 154

D.

Dahlman, I. H.—
Bill for span of horses, approved 90

Dale, H. W.—
Work of building corrugated iron sheds for storing stop-planks at Brewster awarded to 179

Daly, Patrick (Superintendent of Dam Construction)—
Assigned to duty 67
Above assignment canceled 190

PAGE

Dams Nos. 1 and 2 (See also "Bog Brook Dams")—
David R. Paige & Co. granted extension of time to complete 98
Comptroller requested to release to contractors $10,000 out of the 10 per cent. retained under contract for 140

Davy, Edward (Inspector of Masonry)—
Vouchers, for judgment rendered, for salary 3

De Kay, Eckford C.—
Assigned to duty as Laborer 107

De Luze, L. P. (Assistant Engineer)—
Granted leave of absence 64
Above leave of absence extended 174

Denning, Peter—
Assigned to duty as Laborer 71

Denny, H. R.—
Appointment as Axeman revoked 28

Department of Public Works (see also "Commissioner of Public Works")—
John A. Byrne, Assistant Draughtsman, transferred to 132

Dismissal—
R. W. Creuzbaur, Draughtsman 23
C. F. Ferrer, A. H. Grant and H. B. Alderson, Rodmen; William Barry and William Horton, Axemen; C. Leonhard, Draughtsman; H. R. Wheeler and H. C. Allen, Assistant Engineers; A. J. Lamb and A. B. Satterlee, Transitmen; George C. Marrin, Chainman; R. C. Rathborne, F. W. Carpenter, J. N. H. Cornell and George Endicott, Levelers, and John R. Vernam, Messenger 28–31
Of R. Rathborne, Leveler, reconsidered 40
Of Patrick H. Lydon, Inspector of Masonry, reconsidered 41
Of R. W. Creuzbaur, Draughtsman, reconsidered 46
Michael Fletcher, Fireman; George Wilson, Helper; John Carpenter, Edward Sarles and H. Jones, Laborers 51
Of J. N. H. Cornell, Leveler, reconsidered 52
Gilbert Tompkins, Laborer 55
Theophalus Greaser, First Helper; Patrick Lynch, Second Helper, and Henry Bailey, Laborer 138
John Regan, E. W. Purdy, R. F. Vredenburgh and E. M. Tice, Laborers 139
James E. Kearns, Laborer 149
William A. Barrett, Foreman; Orlando Barrett, Teamster, and Stephen Sutton, P. Sutton, E. L. Ferris, Laborers 155
George A. Hammond, Drill Foreman; Michael Tierney, Assistant Foreman; J. S. Lockwood, First Helper, and Baldwin Jones, Fireman 170
Edward J. Dougherty, Laborer 173
Martin Dwyer, Stephen A. Haynard, Eli Bradley and Frank Russell, Laborers 177
Walter J. Sager, Foreman 189

PAGE

Division Engineer—
Transfer and consolidation of offices of ... 51
Charles S. Gowen, assigned to superintendence of New Croton Dam ... 150
Alfred Craven placed in charge of Reservoir "M" ... 150
Assignment to new division ... 185

Double Reservoir "I" (see East Branch Reservoir and Sodom Dam).

Dougherty, Edward J.—
Employed as Laborer ... 64
Discharged ... 173

Dougherty, James—
Bill for one pipe plug, approved ... 175

Dougherty, William—
Bid for temporary fence in vicinity of Shaft No. 26 ... 68

Douw, Charles G. (Assistant Engineer)—
Voucher, for judgment rendered, for salary ... 20

Draughtsman—
R. W. Creuzbaur, discharged ... 23
C. Leonhard, discharged ... 29
Above dismissal of R. W. Creuzbaur reconsidered and resignation accepted ... 46
John A. Byrne transferred to Department of Public Works ... 132

Drummond, M. J.—
Bid for fencing at Croton Gate-house ... 55
Bid for iron-work at Shafts Nos. 24 and 25 ... 76
Bid for iron doors at East Branch Reservoir ... 80
Bid for fence for highway bridge at Pocantico Gate-house ... 108
Awarded contract for six trolley trucks to be delivered at Brewster ... 108
Bid for iron cover at Shaft No. 11C ... 133
Bid for trolleys, etc., for New Croton Gate-house ... 143
Bid for iron posts for fencing shaft sites ... 171

Duane, James C. (See "President").

Dwyer, Martin—
Employed as laborer ... 133
Discharged ... 177

Dykman, H. T.—
To be requested to furnish list of unpaid taxes ... 36
Presents statement of claims, amounts awarded, etc., matter of Double Reservoir "I" ... 57
Presents statement of claims, amounts awarded, etc., Westchester County Section, New Aqueduct ... 81

E.

East Branch Reservoir (See also "Sodom Dam")— PAGE
Bills of Sullivan, Rider & Dougherty for cleaning grounds, etc., at, approved 50, 53
Extension of time granted to Sullivan, Rider & Dougherty to complete..... 72
Contract for iron doors, etc., at, awarded to New Jersey Foundry and Machine Company..... 80
Forms of contract, etc., for fencing boundary of, north of Milltown Bridge, approved; and President and Secretary directed to advertise for proposals..... 147
Commissioners consent to assignment by Sullivan, Rider & Dougherty, contractors, to Clinton L. Stephens and Ellen A. Sullivan, of all moneys due or to become due under their contract for..... 150
Bids received for fencing boundary of..... 154
Schedule of capacity of..... 157
Contract for fencing boundary of, awarded to John E. Brooks..... 169
Commissioners elect Style "B" for above fencing..... 170
Contract for iron posts for above fence awarded to Coldwell-Wilcox Company..... 174
John E. Brooks granted extension of time on contract for fencing boundary of..... 191
Completion and acceptance of 192

Edwards, Joseph, & Co.—
Bid for furnishing one 24-inch valve for Titicus Dam..... 156

Endicott, George (Leveler)—
Discharged 31

Erickson, Charles—
Bid for fencing boundary of East Branch Reservoir..... 154

Estimates—
Of contract work approved.....1, 25, 39, 49, 55, 68, 71, 93, 97, 107, 125, 131, 143, 149, 155, 173, 183, 187
Final, for 2 feet by 5 feet sluice gates, approved..... 9
Final, for constructing highway, etc., at Croton Dam, approved..... 122

Extension of time—
Smith, Brown & Coleman, to complete gate-house superstructure at Croton Dam.... 10
Washburn, Shaler & Washburn, on contract for Reservoir "M"..... 34
Sullivan, Rider & Dougherty, on contract for East Branch Reservoir..... 72
Levy & Quinn, on contract for grading, etc., grounds at shafts..... 80, 150
John F. Gaynor, assignee of John M. Waddle, on contract for blow-off at Shaft No. 24..... 80, 138
David R. Paige & Co., on contract for Dams 1 and 2..... 98
P. J. Moran, on contract for grading, etc., grounds at One Hundred and Thirty-fifth Street Gate-house 103
John Peirce, on contract for head-house, etc., at Shaft No. 25..... 126

Extension of time— PAGE
John E. Brooks, on contract for fencing boundary of East Branch Reservoir..... 191
M. S. Coleman, on contracts for earth and masonry, and auxiliary earth and masonry dam for Reservoir "D"..... 192

F.

Ferrer, C. F. (Rodman)—
Discharged..... 28

Ferris, E. L.—
Assigned to duty as laborer..... 139
Discharged..... 155

Final Estimate (see "Estimate").

Finance and Audit (see "Committee of").

Fireman—
Michael Fletcher, discharged..... 51
Joseph Hamilton, Thomas Jenkins, David Hartigan and John Crowley, employed as 132
Baldwin Jones, discharged..... 170

Fitzgerald, Edward (Inspector of Masonry)—
Voucher, for judgment rendered, for salary..... 3

Flanagan, Max W.—
Bid for soiling, sodding, etc., at Shaft No. 24..... 94

Fletcher, Michael (Fireman)—
Discharged..... 51

Flood, Francis T. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary..... 77

Foreman—
William A. Barrett, employed as..... 138
William A. Barrett, discharged..... 155
George A. Hammond, discharged..... 170
Michael Tierney, Assistant, discharged..... 170
Walter J. Sager, discharged..... 189

Fowler, E—
Bid for painting fence at auxiliary dam for Reservoir "D," accepted..... 10

Fox, John—
Completion of contract for 2 feet by 5 feet sluice gates..... 7
Awarded contract for additional fencing at Croton Gate-house..... 56
Bid for iron work at Shafts Nos. 24 and 25..... 76
Bid for iron doors at East Branch Reservoir..... 80

Fox, John— PAGE

Bids for fence for highway bridge at Pocantico Gate-house, and for six trolley trucks to be delivered at Brewster 108

Awarded contract for iron cover for Shaft No. 11C 133

Bid for trolleys, etc., for New Croton Gate-house 144

Awarded work of furnishing one 24-inch valve for Titicus Dam 156

Bid for furnishing iron posts for fencing shafts 171

Bid for furnishing manhole covers at Shaft No. 25 180

Awarded contract for double gate at Bog Brook Tunnel Gate-house 188

Frank, Lincoln—

Files notice of lien against Levy & Quinn 24

G.

Gate-houses—

Smith, Brown & Coleman granted extension of time to complete gate-house superstructure at Croton Dam 10

Bill of P. J. Moran for repaving, etc., at One Hundred and Thirty-fifth street, approved 49

John Fox awarded contract for additional fencing at New Croton 55

P. J. Moran granted extension of time to complete contract for grading, etc., grounds at One Hundred and Thirty-fifth street 103

New Jersey Foundry and Machine Company, awarded contract for fence for highway bridge at Pocantico 108

Appropriation for measuring weir at Croton Dam 127

Carrere & Haas Iron Works, awarded contract for trolleys, etc., at New Croton 144

Acceptance of work of grading, etc., of grounds at One Hundred and Thirty-fifth street 147

Appropriation of $1,000 for perfecting drainage and ventilation of One Hundred and Thirty-fifth street 170

Above work awarded to M. Halliday 184

John Fox, awarded work of constructing double gate at Bog Brook Tunnel 188

Bill of P. J. Moran, for work on fence at One Hundred and Thirty-fifth street, approved 191

Ganong, Eleazer H.—

Repayment of taxes to 26

Gaynor, John F. (assignee of John M. Waddle)—

Lien filed by Otis & Gorsline, against 61

Granted extension of time to complete blow-off at Shaft No. 24 ..... 80, 138

Lien filed by Andrew H. Green, executor of estate of William B. Ogden, against 159

Lien filed by Coldwell-Wilcox Company, against 172

Gifford, George A. (Inspector of Masonry)—

Voucher, for adjustment of claim, for salary 9

Gilroy, Thomas F. (see "Commissioner of Public Works"). PAGE

Gowen, Charles S. (Division Engineer)—
Placed in charge of construction of New Croton Dam 150
Placed in charge of New Croton Dam Division, consisting of New Croton Dam and upper district of Aqueduct 185

Graham, Thomas (Superintendent of Dam Construction)—
Assignment to duty ceases 35
Reassigned to duty 55, 155

Grant, A. H. (Rodman)—
Discharged 28

Greaser, Theophalus (First Helper)—
Discharged 138

Green, Andrew H. (Executor of William B. Ogden)—
Files lien, against John F. Gaynor 159

Greenburgh, Town of—
Bill of, for taxes due School District No. 5, approved 40
Bill of, for taxes, approved 81
Chief Engineer authorized to construct road in 104

Greenlie, Wyatt & Co.
Bid for fencing at Croton Gate-house 56

Groub, Jefferson (Clerk)—
Promoted to second grade 27
Salary increased 94

Gudeon, Robert J. (Superintendent of Dam Construction)—
Assigned to duty 132

H.

Halliday, M.—
Awarded work of improving construction of roof and ventilation of One Hundred and Thirty-fifth Street Gate-house 184

Hamilton, Joseph—
Employed as Fireman 132

Hammond, George A. (Drill Foreman)—
Discharged 170

Hanney, John J.—
Assigned to duty as Janitor 179

Harper, Robert—
Employed as Laborer 132

PAGE

Harrison, M. & Son—
Bid for work of improving construction of roof and ventilation of One Hundred and Thirty-fifth Street Gate-house 184

Hartigan, David—
Employed as Fireman 132

Havanagh, John T. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 60

Haynard, Stephen A.—
Employed as Laborer 133
Discharged 177

Head-house and engine-room superstructure at Shaft No. 25—
William H. Baker, contractor, applies for consent to assign contract to John Peirce .. 3
Same granted 7, 37
John Peirce granted extension of time to complete 126

Head-houses—
Bill of Breuchaud, Pennell & Co., for extra work on, approved 33

Helper—
George Wilson, discharged 51
Theophalus Greaser and Patrick Lynch, First and Second Helpers, discharged 138
J. S. Lockwood, First Helper, discharged 170

Hine, Francis F. (Axeman)—
Recommended for examination for promotion 132

Hoe, W. A., Jr. (Computer)—
Resignation accepted 102
Date of above changed 109

Hoffman, John D.—
Employed as Laborer 64
Reported as having left the work 107

Holihan, John (Superintendent of Dam Construction)—
Assignment to duty ceases 35

Hopkins, Samuel—
Employed as Laborer 149

Horgan, Moses (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 32

Horses—
Bill of I. H. Dahlman for span of, approved 190

Horton, William (Axeman)—
Discharged 29

I.

PAGE

Ingalls, O. L. (Computer)—
Resignation accepted 30

Inspector of Masonry—
Discharge of Patrick H. Lydon, reconsidered and resignation accepted 41
Stephen Whisten, Jr., temporarily employed as 65

Interest—
To be allowed on amounts deducted from final estimates for Sections 7, 8, 9, "A" and "B" 156

Iron-lined Masonry Aqueduct, near Shaft No. 30—
Claim of Breuchaud, Pennell & Co., for work on, referred to Comptroller 10
Above claim adjusted 176

J.

Jadin, August—
Assigned to duty as Laborer 93

James, William—
Employed as Journeyman Machinist 132

Janitor—
John J. Hanney, assigned to duty as 179

Jaycox, William A. (Inspector of Masonry)—
Voucher, for claim adjusted, for salary 141

Jenkins, Thomas—
Employed as Fireman 132

Johnstone, Joseph (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 60

Jones, Baldwin (Fireman)—
Discharged 170

Jones, H. (Laborer)—
Discharged 51

Journeyman Machinist—
William James, employed as 132

Judgments—
In favor of employees, viz.:
James S. Shells and Frank P. Lary, Inspectors of Masonry, and Michael Corkey, Axeman 2
Edward Fitzgerald and Edward Davy, Inspectors of Masonry 3

Judgments—
In favor of employees, viz.: PAGE
Hugh Montague, John Costello, Daniel McCort, Inspectors of Masonry; Hugh Keegan, Axeman, and Charles G. Douw, Assistant Engineer..... 19-20
Thomas Byrnes, Edward L. Studwell, Moses Horgan and William H. Crumie, Inspectors of Masonry..... 31-32
Philip J. Kiernan, Inspector of Masonry..... 52
Pierrepont Bartow, Assistant Draughtsman..... 59
Daniel F. Leary, Joseph Johnstone and John T. Havanagh, Inspectors of Masonry 60
Ellen Malone, executrix of Christopher B. Malone, Inspector of Masonry..... 73
Francis T. Flood, Inspector of Masonry..... 77
James Brown, Inspector of Masonry..... 189

K.

Katonah—
Offices rented for Engineer Corps from M. S. Benedict at..... 183
Kearney, John J. (Inspector of Masonry)—
Voucher, for claim adjusted, for salary..... 135
Kearns, James E. (Laborer)—
Discharged..... 149
Keegan, Hubert (Axeman)—
Voucher, for judgment rendered, for salary..... 20
Keenan, Patrick—
Employed as Laborer..... 133
Kelley, Charles—
Bill for moving furniture, etc., for Fifth Division, approved..... 191
Kenny, Joseph—
Appointment as Axeman revoked..... 28
Kiernan, Philip J. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary..... 52
Kipp, B. F.—
Bill for sinking test pits at site of Cornell Dam, approved..... 23

L.

Laborers—
Superintendents of Dam Construction, A. J. Sparrow, P. J. Moynihan, I. S. Rossell and Gerald McMurray, employed as..... 19
John Carpenter, Edward Sarles and H. Jones, discharged..... 51
Gilbert Thompkins, discharged..... 55
John D. Hoffman and Edward J. Dougherty, employed as..... 64
Peter Denning, assigned to duty..... 71

Laborers— PAGE
Edgar M. Smith, given permission to be examined for promotion 75
August Jadin, assigned to duty..... 93
Winfred H. Roberts and Eckford C. DeKay, assigned to duty 107
Charles A. Thomas, assigned to duty..... 125
Robert Harper, Timothy Brockley, John Croby, Patrick Brady, Patrick Keenan, Martin Dwyer, Eli Bradley, Frank Russell and Stephen A. Haynard, employed as 132
Daniel Reardon, temporarily employed as..... 134
Henry Bailey, discharged..... 138
Stephen Sutton, P. Sutton and Thomas Terrell, employed as..... 138
John Regan, E. W. Purdy, R. F. Vredenburgh and E. M. Tice, discharged..... 139
E. L. Ferris, temporarily assigned to duty..... ... 139
Chief Engineer submits list of, who have been, since August 1, 1888, and of those who now are, in the employ of the Aqueduct Commissioners..... 144
James E. Kearns, discharged 149
Samuel Hopkins, employed as..... 149
Stephen Sutton, P. Sutton and E. L. Ferris, discharged..... 155
Edward J. Dougherty, discharged..... 173
Julian Thornley, employed as 174
Martin Dwyer, Stephen A. Haynard, Eli Bradley and Frank Russell, discharged... 177
Superintendents of Dam Construction, P. J. Moynihan, I. S. Rossell and Gerald McMurray, detailed to duty as..... 188

Lamb, A. J. (Transitman)—
Discharged..... 29

Lands—
Certain parcels of, required for access to Shaft Site No. 8, to be withdrawn from Commissioners of Sinking Fund 178

Lary, Frank P. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary..... 2

Leary, Daniel F. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary.... 60

Lease—
Of office at Sing Sing renewed..... 191

Leave of absence—
B. R. Value, Assistant Engineer.....26, 138, 143
L. P. DeLuze, Assistant Engineer..... .... 64, 174
D. McRae Livingstone, Leveler..... 107, 170
Timothy Capper, Superintendent of Dam Construction..... 190

Leonhard, C. (Draughtsman)—
Discharged 29

PAGE

Leveler—
R. C. Rathborne, F. W. Carpenter, J. N. H. Cornell and George Endicott, dismissed. 30–31
Dismissal of R. C. Rathborne reconsidered and resignation accepted 40
Dismissal of J. N. H. Cornell reconsidered and resignation accepted 52
D. McRae Livingstone granted leave of absence 107
A. S. Nye recommended for examination for promotion 126

Levy & Quinn—
Lincoln Frank files lien against 24
Granted extension of time to complete grading, etc., grounds at shafts 80, 150
To construct road through Mt. Hope Cemetery, Town of Greenburgh 104
Francis Bartlett and James McCusker file lien against 118
Jacob Schmidt files lien against 135
Bill for work at Shafts Nos. 15½, 16 and 21, approved 183

Liens filed—
Coldwell-Wilcox Company against David R. Paige & Co 52
Otis & Gorsline against John F. Gaynor, assignee of John M. Waddle 61
R. D. Wood & Co. against John M. Waddle 98
Francis Bartlett and James McCusker against Levy & Quinn 118
New York and Rosendale Cement Company against David R. Paige & Co 122
John Beattie against David R. Paige & Co 130
Jacob Schmidt against Levy & Quinn 135
Andrew H. Green, executor of estate of William H. Ogden, against John F. Gaynor. 159
Coldwell-Wilcox Company against John F. Gaynor 172

Livingstone, D. McRae (Leveler)—
Granted leave of absence 107, 170

Lockwood, J. S. (First Helper)—
Discharged 170

Lulley, Julius C.—
Appointed Secretary pro tem 36
Appointed Secretary 40

Lydon, Patrick H. (Inspector of Masonry)—
Discharge reconsidered and resignation accepted 41

Lynch, Patrick (Second Helper)—
Discharged 138

M.

McCort, Daniel (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 20

McCulloh, Walter (Division Engineer)—
Placed in charge of Brewster Dams Division, consisting of Sodom and Bog Brook Dams 185

PAGE

McCusker, James—
Files lien against Levy & Quinn 118

McLoughlin & Reilly—
Bid for macadamized road at Shaft No. 24, accepted 103

McLoughlin, John—
Awarded contract for fencing at Bog Brook 125

McMurray, Gerald (Superintendent of Dam Construction)—
Employed as Laborer 19, 188
Assigned to duty 64
Above assignment canceled 188

McNeal Pipe and Foundry Company—
Awarded work of furnishing standard manhole cover at Shaft No. 25 180

McQuade, John—
Bid for constructing New Croton Dam 124

McQuade, John, and Joseph Moore—
Bid for constructing New Croton Dam 101

Malone, Christopher B. (Inspector of Masonry) (see "Ellen Malone").

Malone, Ellen (executrix of Christopher B. Malone)—
Voucher, for judgment rendered, for salary 73

Marrin, G. C. (Chainman)—
Discharged 30

May, Charles A.—
Bid for temporary fence in vicinity of Shaft No. 26 68

Messenger—
John R. Vernam, discharged 31

Mezger, Edward—
Appointed Skilled Laborer 108

Montague, Hugh (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 19

Moore, Joseph (see "McQuade, John").

Moran, P. J. (Contractor)—
Bill for work on Manhattan Island Section, approved 49
Bid for temporary fence in vicinity of Shaft No. 26 68
Granted extension of time to complete grading, etc., grounds of One Hundred and Thirty-fifth Street Gate-house 104
Completion of above work at One Hundred and Thirty-fifth Street Gate-house, by .. 147
Bill for work on fence at One Hundred and Thirty-fifth Street Gate-house, approved 191

Morrow, John—
Bill for work of improving construction of roof and ventilation of One Hundred and Thirty-fifth Street Gate-house 184

Motley, Thornton N.— PAGE
John Claffy substituted as bondsman, on contract for East Branch Reservoir, in place of..... 2

Mount Hope Cemetery Association—
Chief Engineer authorized to construct road through grounds of..... 104

Mount Pleasant, Town of—
Bills for taxes, approved.....33, 65, 179, 191

Moynihan, P. J. (Superintendent of Dam Construction)—
Employed as Laborer..... 19, 188
Reassigned to duty..... 57
Above assignment canceled..... 188

Muscoot Dam—
Edward Wegmann, Jr., Division Engineer, placed in charge of surveys, etc., to prepare for construction of..... 151, 185

Myers, Theodore W. (see "Comptroller").

N.

Nally, Christopher—
Bid for fencing boundary of East Branch Reservoir..... 154

New Castle, Town of—
Bills for taxes, approved.....1, 47, 94, 187

New Croton Dam—
Bill of B. F. Kipp for sinking test pits at site of, approved 23
Additional appropriation for cost of printing plans of..... 34
Bills of I. Terwilliger and W. Twigger for lumber, storage, etc., at..... 40
Forms of contract, specifications and bond for, approved and adopted..... 69
President and Secretary directed to advertise for proposals for constructing.....69, 95, 121
Comptroller protests against the construction of..... 70
Opening of bids for construction of, postponed..... 95
Secretary authorized to receive bids for construction of..... 99, 123
Bids opened and read and referred to Committee of Finance and Audit..... 100, 124
Bill of Robert A. Welcke, for lithographing contract drawings of, approved..... 103
Report of Construction Committee on bids received for constructing..... 119
All bids received for, rejected..... 121
Committee of Finance and Audit report examination of bids and checks received for constructing..... 121, 129
Contract for, awarded to James S. Coleman..... 129
Chief Engineer authorized to build a bridge across Croton river to maintain traffic interrupted by construction of..... 147
Charles S. Gowen, Division Engineer, placed in charge of construction of..... 150, 185

New Croton Dam—
Edward Wegmann, Jr., Division Engineer, placed in charge of surveys, etc., for highways at ... 154
Appropriation of $150 for repairs to office at ... 174

New Croton Dam Division (includes New Croton Dam and upper district of Aqueduct)—
Placed in charge of Charles S. Gowen, Division Engineer ... 185

New Croton Gate-house (see "Gate-houses").

New Jersey Foundry and Machine Company—
Bid for iron work at Shafts Nos. 24 and 25 ... 70
Bid for iron doors at East Branch Reservoir, accepted ... 80
Awarded contract for fence for highway bridge at Pocantico Gate-house ... 108
Bid for trolley trucks, etc., to be delivered at Brewster ... 108
Bid for iron cover at Shaft No. 11C ... 155
Bid for trolleys, etc., for New Croton Gate-house ... 164
Bid for iron posts for fencing shaft sites ... 171
Bid for manhole covers at Shaft No. 25 ... 180

Newton, Augustine M. (Contractor)—
Completion of contract for highway, retaining walls, etc., at Croton Dam, by ... 109

New York and Rosendale Cement Company—
File lien against David R. Paige & Co. ... 122

North Salem, Town of—
Bill for taxes, approved ... 170

North Tarrytown, Village of—
Bills for taxes approved ... 103, 173

Nye, A. S. (Leveler)—
Recommended for examination for promotion ... 120

O.

Offices—
Chief Engineer authorized to make necessary changes in location of, on line of Aqueduct ... 31
Action of Chief Engineer in renting four rooms of M. S. Benedict, at Katonah, for use of Engineer Corps, approved ... 183
Lease of, at Sing Sing, to be renewed ... 191

Ogden, William B. (Estate of)—
File lien against John F. Gaynor ... 130

Osborne Brothers—
Bid for stop-planks at Sodom Dam ... 178

Otis & Gorsline—
File lien against John M. Waddle and John F. Gaynor, assignee ... 61

P.

Paige, David R., & Co.— PAGE

Lien filed by Coldwell-Wilcox Company against 52

Granted extension of time to complete contract for Dams 1 and 2 98

Lien filed by New York and Rosendale Cement Company against 122

Lien filed by John Beattie against 130

Comptroller requested to release to, $10,000 out of the ten per cent. retained under contract for Dams 1 and 2 140

Palmer, C. W.—

Awarded work of furnishing screens at Croton Dam 134

Bid for corrugated iron sheds at Brewster 179

Peirce, John—

William H. Baker asks consent to assign contract for head-house superstructure, etc., at Shaft No. 25, to 3

Above consent granted 7, 37

Granted extension of time to complete head-house, etc., at Shaft No. 25 126

Pocantico—

Appropriation for additional masonry foundations for engine-house at 46

Award of contract for fence for highway bridge at 108

Additional masonry work necessary to complete engine-house at 127

Portable Hoisting Plant—

Bills for storage of, approved 26, 57, 122, 174

Bill of Armstrong Express Co. for moving, approved 175

President (James C. Duane)—

Directed to advertise for proposals for New Croton Dam 69, 95, 121

Reports, as member of Special Committee, on bids received for New Croton Dam ... 120

Directed to advertise for proposals for fencing boundary of East Branch Reservoir, north of Milltown Bridge 147

Directed to withdraw from Commissioners of Sinking Fund certain lands required for access to Shaft Site No. 8 178

Promotion—

Jefferson Groub and Herrmann Blumenthal, Clerks, from first to second grade 27

Benjamin L. Blauvelt, to Rodman 171, 192

Purdy, E. W. (Laborer)—

Discharged 139

Q.

Quaker Bridge Dam—

Bid of John M. Burnet's Sons for binding reports, accepted 76

R.

PAGE

Rathborne, R. C. (Leveler)—
Discharged 30
Discharge reconsidered and resignation accepted 40

Reardon, Daniel—
Temporarily employed as Laborer 134

Reed, E. W.—
Work of furnishing stop-planks at Sodom Dam awarded to 178

Regan, John (Laborer)—
Discharged 139

Reservoir "D"—
Placed in charge of Alfred Craven, Division Engineer 185
M. S. Coleman, contractor, granted extension of time on contracts for 192

Reservoir "I" (Double) (See also "Sodom Dam and East Branch Reservoir")—
Amount of claims, matter of 57

Reservoir "M"—
Extension of time granted to contractors to complete 34
Bill for valves at, approved 49
Appropriation for lithographing contract drawings for highways at 108
Alfred Craven, Division Engineer, placed in charge of construction of 150, 185
John Fox awarded contract for one 24-inch special valve for 156

Resignation—
O. L. Ingalls, Computer, accepted 30
John C. Sheehan, Secretary, accepted 36
R. C. Rathborne, Leveler, accepted 40
Patrick H. Lydon, Inspector of Masonry, accepted 41
E. P. Roberts, Assistant Engineer, accepted 42
R. W. Creuzbaur, Draughtsman, accepted 46
J. N. H. Cornell, Leveler, accepted 52
W. A. Hoe, Jr., Computer, accepted 102, 109
John P. R. Taaffe, Rodman, accepted 122

Roberts, E. P. (Assistant Engineer)—
Resignation accepted 42

Roberts, Winfred H.—
Assigned to duty as Laborer 107

Rodman—
C. F. Ferrer and A. H. Grant, dismissed 28
H. B. Alderson, dismissed 30
John P. R. Taaffe, reassigned to duty with Engineer Corps 96

Rodman— PAGE
John P. R. Taaffe, resignation accepted ... 122
D. McRae Livingstone, granted leave of absence ... 170
Benjamin L. Blauvelt, Axeman, promoted to ... 171, 192

Rossell, L. S. (Superintendent of Dam Construction)—
Employed as Laborer ... 19, 188
Reassigned to duty ... 57
Assignment to duty canceled ... 188

Rourke, John—
Bid for fencing at Croton Gate-house ... 55
Awarded contract for iron work at Shafts Nos. 24 and 25 ... 76
Bid for iron doors at East Branch Reservoir ... 80

Russell, Frank—
Employed as Laborer ... 133
Discharged ... 177

Ryan & McDonald Construction Co., The—
Bid for constructing New Croton Dam ... 100
Report of Special Committee adverse to accepting bid of ... 119

S.

Sager, Walter J. (Foreman)—
Discharged ... 189

Salaries—
Of Jefferson Groub and Herrmann Blumenthal, Clerks, increased ... 94

Sarles, Edward (Laborer)—
Discharged ... 51

Satterlee, A. B. (Transitman)—
Discharged ... 29

Schmidt, Jacob—
Files lien against Levy & Quinn ... 135

Secord, Benjamin—
Repayment of taxes to ... 26

Secretary—
Presents abstract of trial balance ... 11, 84, 110, 159
To prepare report of the work of Commission ... 27
To communicate with H. T. Dykman in relation to unpaid taxes ... 36
Resignation of John C. Sheehan, accepted ... 36
Julius C. Lulley, appointed ... 36, 40
Directed to prepare new leases for offices of Engineers on the line ... 51

PAGE

Secretary—
Directed to advertise for proposals for New Croton Dam 69, 95, 121
Authorized to receive bids for New Croton Dam 99, 123
Directed to advertise for proposals for fencing boundary of East Branch Reservoir, north of Milltown Bridge 147
Authorized to receive bids for above 153

Sections—
7, 8, 9, "A" and "B"; vouchers to be prepared for interest on amounts deducted from final estimates of 156

See, Gideon—
Repayment of taxes to 26

Shafts—
21, contract for cover for, awarded to Coldwell-Wilcox Company 2
25, consent to assignment of contract for head-house superstructure, etc., at, to John Peirce 8, 37
26, contract for fence in vicinity of, awarded to John Twiname 68
24 and 25, contract for iron work at, awarded to John F. Rourke 76
Extension of time granted to Levy & Quinn to complete grading, etc., grounds at .. 80, 150
24, extension of time granted to John F. Gaynor to complete blow-off at 80, 138
24, contract for soiling, sodding, etc., at, awarded to John Twiname 94
24, bid of McLoughlin & Reilly for macadamized road at, accepted 103
25, extension of time granted to John Peirce to complete head-house, etc., at 126
11C, contract for furnishing iron covers for, awarded to John Fox 133
24, acceptance of fence at 133
8, parcels of land to be withdrawn from Commissioners of the Sinking Fund for access to 178
25, McNeil Pipe and Foundry Company and Coldwell-Wilcox Company, awarded work of furnishing two manhole covers at 180
24, bill of John Twiname for additional labor at, approved 181
24, completion and acceptance of work of soiling, sodding, etc., at 181
15½, 16 and 21, bill of Levy & Quinn for work at, approved 183

Sheehan, John C. (Secretary)—
Resignation accepted 36

Shells, James S. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 2

Skilled Laborer—
Edward Mezger, appointed 108

Sluice Gates—
For Sodom and Bog Brook Dams, accepted 7

Smith, Brown & Coleman—
Granted extension of time to complete their contract for gate-house superstructure at Croton Dam 10

PAGE

Smith, Edgar M. (Laborer)—
Given permission to be examined for promotion 75

Smith, Francis V.—
Completion of fence at Shaft No. 24, by 134
Bid for fencing boundary of East Branch Reservoir 154

Sodom Dam (see also "East Branch Reservoir")—
Contract for iron beams, etc., at, awarded to Coldwell-Wilcox Company 2
Sluice-gates, etc., at, accepted 7
Bills of Coldwell-Wilcox Company for additional work at, approved 46–47
H. T. Dykman presents statement of claims, amounts awarded, etc., in matter of 57
Bids for stop-planks at 178
Placed in charge of Walter McCulloh, Division Engineer 185

Sodom Reservoir (see "East Branch Reservoir").

South East, Town of—
Bills for taxes, approved 36, 50

Sparrow, A. J. (Superintendent of Dam Construction)—
Employed as Laborer 19
Assigned to duty 64
Above assignment canceled 188

Special Committee—
Report on bids received for constructing New Croton Dam 119–120

Stair & Martin—
Bid for furnishing screens at Croton Dam 134

Stephens, Clinton—
Bid for fencing boundary of East Branch Reservoir 154

Studwell, Edward L. (Inspector of Masonry)—
Voucher, for judgment rendered, for salary 32

Sullivan, Rider & Dougherty (Contractors)—
John Claffy, substituted on bond of 2
Bill of cleaning privy vaults, etc., at East Branch Reservoir, approved 50
Bill for cleaning grounds at East Branch Reservoir, approved 53
Granted extension of time to complete contract for East Branch Reservoir 72
Assign to Clinton Stephens and Ellen A. Sullivan, moneys due or to become due under their contract for East Branch Reservoir 150
Completion of contract for East Branch Reservoir by 192

Sullivan, Timothy J.—
Bid for construction of New Croton Dam 124

Sunderlin, George E.—
Repayment of taxes to 26

PAGE

Superintendent of Dam Construction—
A. J. Sparrow, P. J. Moynihan, I. S. Rossell and Gerald McMurray, employed as Laborers 19
William N. Cook, A. L. Crosby, John Holihan, Thomas Graham and Timothy Capper, notified that their assignment to duty ceases 35
A. L. Crosby and Timothy Capper, reassigned to duty 40
Thomas Graham, reassigned to duty 55
Isaac S. Rossell and P. J. Moynihan, reassigned to duty 57
A. J. Sparrow and Gerald McMurray, assigned to duty 64
Patrick Daly, assigned to duty 67
Robert J. Gudeon, assigned to duty 132
Timothy Capper and Thomas Graham, reassigned to duty 155
Assignment to duty of P. J. Moynihan, I. S. Rossell, Gerald McMurray and A. J. Sparrow, canceled 188
P. J. Moynihan, I. S. Rossell and Gerald McMurray, detailed to duty as Laborers ... 188
Assignment to duty of Patrick Daly, canceled 190
Timothy Capper, granted indefinite leave of absence 190

Sutton, P.—
Employed as Laborer 138
Discharged 155

Sutton, Stephen—
Employed as Laborer 138
Discharged 155

Sykes, Macrae (Computer)—
Recommended for examination for promotion 170

T.

Taaffe, John P. R. (Rodman)—
Reassigned to duty with Engineer Corps 96
Resignation accepted 122

Taxes—
Bills of, due School District No. 6, Town of New Castle, approved 1, 47, 94, 187
Repaid to former owners of the property situated in Carmel, N. Y. 26
Bills of:
Due Town of South East, approved 36
Due School District No. 5, Town of Greenburgh, approved 40
Due City of Yonkers, approved 47
Due Town of South East (School District No. 11), approved 50
Due Town of Mount Pleasant, approved 33, 65, 179, 191
Due Town of Greenburgh, approved 81
Due Village of North Tarrytown, approved 103, 175

Taxes—

Bills of: PAGE

Due Town of Yorktown, approved ... 104

Due Town of North Salem, approved ... 179

Due Town of Cortland (School District No. 3), approved ... 187

Teamster—

Orlando Barrett, assigned to duty as ... 139

Orlando Barrett, discharged ... 155

Terrell, Thomas—

Employed as Laborer ... 138

Terwilliger, I.—

Bill for lumber, approved ... 40

Thomas, Charles A.—

Assigned to duty as Laborer ... 125

Thornley, Julian—

Employed as Laborer ... 174

Tice, E. M. (Laborer)—

Discharged ... 139

Tierney, Michael (Assistant Foreman)—

Discharged ... 170

Titicus Dam (See "Reservoir M").

Thompkins, Gilbert (Laborer)—

Discharged ... 55

Transitman—

A. J. Lamb and A. B. Satterlee, discharged ... 29

Trial Balance, Abstract of ... 11, 84, 110, 159

Trolley Trucks—

M. J. Drummond awarded contract for ... 108

Twigger, Walter—

Bill for storage, etc., approved ... 40

Twiname, John (Contractor)—

To furnish additional rubble masonry foundations for the engine-houses ... 46

Awarded contract for temporary fence in vicinity of Shaft No. 26 ... 68

Awarded contract for soiling, sodding, etc., at Shaft No. 24 ... 94

Bill for temporary fence at Shaft No 26, approved ... 102

Bid for fencing boundary of East Branch Reservoir ... 154

Bill for additional labor at Shaft No. 24, approved ... 181

Completion of soiling, sodding, etc., at Shaft No. 24 ... 181

Bill for work at Dunwoodie, approved ... 190

U.

Underhill, Edward— PAGE
Bills for storage of hoisting plant approved..... 57, 175

V.

Valles, J. A.—
Appointed Axeman..... 171

Value, B. R. (Assistant Engineer)—
Granted leave of absence..... ....26, 138, 143
Reassigned to duty..... 64

Vernam, John R. (Messenger)—
Discharged..... 31

Vouchers—
Certified to Comptroller for payment..... 1, 5, 9, 23, 25, 33, 35, 39, 43, 44, 45, 49, 52, 55, 57, 61, 63, 68, 71, 75, 79, 93, 97, 101, 105, 107, 122, 125, 131, 137, 141, 143, 149, 155, 169, 173, 177, 183, 187, 193

Vredenburgh, R. F. (Laborer)—
Discharged 139

W.

Waddle, John M.—
Lien filed by Otis & Gorsline against..... 61
Extension of time granted to John F. Gaynor, assignee of, to complete blow-off at Shaft No. 24 .... 80, 138
Lien filed by R. D. Wood & Co. against..... 98

Warrants—
Notice of issue of, not certified to by Aqueduct Commissioners. 21, 38, 52, 65, 96, 105, 128, 159, 193

Washburn, Shaler & Washburn (Contractors)—
Granted extension of time to complete Reservoir "M"..... 34
Bill for extra valves at Reservoir "M," approved 49

Wegmann, Edward, Jr. (Division Engineer)—
Detailed to take charge of surveys, etc., to prepare for construction of Muscoot Dam, and of roads and bridges for new reservoir on Croton river..... 151
Placed in charge of Croton River Division consisting of the above..... 185

Weir, Max W.—
Bid for soiling, sodding, etc., at Shaft No. 24..... 94

Welcke, Robert A.—
Bill for lithographing contract drawings of New Croton Dam, approved..... 103

PAGE

Westchester County Section—
H. T. Dykman presents statement of claims, amounts awarded, etc., on 81

Wheeler, H. R. (Assistant Engineer)—
Discharged 29

Whisten, Stephen, Jr. (Inspector of Masonry)—
Temporarily employed, for information to be used in litigation for Section 6 65

William Russell Allen, William H. Swift, Claus Vieths, Jeremiah Fruin—
Bid for constructing New Croton Dam 100

Wilson, George (Helper)—
Discharged 51

Winston, Crimmins, Washburn & Co—
Bid for constructing New Croton Dam 101, 124

Wolff, Ernest A.—
Appointed Auditor 41

Y.

Yonkers City Ice Co.—
Bill for ice approved 191

Yonkers, City of—
Bill for taxes approved 47

Yorktown, Town of—
Bill for taxes approved 104